GCC TECHNOLOGIES

PLP II
Ready at SCSI 3

PLP II

**Factory-Direct Rebate on all GCC Laser Printers.
Order now and save! See page 3 for details.**

Dear Customer:

GCC Technologies has long been committed to excellence, we take great pride in the fit and finish of every innovative GCC product. Our commitment to excellence began ten years ago, when we started GCC. As we quickly grew, so did our commitment to quality and excellence. As we celebrate our Tenth Anniversary, we are extending to you an even easier (and more affordable) way to own an award-winning GCC laser printer.

I am proud to announce that GCC is offering a $100, direct from the factory, rebate on GCC laser printers purchased through January 31, 1991. This rebate is only available when you buy a GCC laser printer direct from GCC or from an authorized GCC dealer. (See dealer listing page 30). The rebate covers our new PLP II and BLP II models. See page 3 for details.

On page 3 are some of the people who assemble our products. Their commitment to excellence and quality workmanship is found in every GCC product. We want you to be completely satisfied, as your satisfaction is our only goal. If you're not satisfied, let us know. We'll make it right.

Sincerely,

Kevin G. Curran
President

GCC TECHNOLOGIES. OUR NAME STANDS FOR INNOVATION, VALUE AND CUSTOMER SERVICE.

These are three principles that GCC doesn't take lightly.

Which, we think, will explain why our company has become one of the world's largest independent developers of peripherals for the Macintosh today.

Innovation? We thrive on it. Just look at our history. We developed the first internal hard disk ever for the Macintosh. And the Macintosh's first affordable, full-featured laser printer. And its first portable inkjet printer. And its first affordable high-quality film recorder. And the list goes on.

Value? It's the basis of everything we do. After all, what's so innovative about a product that no one can afford?

And finally, customer service. We know offering innovative products at a value makes our customers happy. Our objective, however, is to keep them happy. And so, we dedicate more resources to doing just that than any other company in the industry.

Testing. Testing. Testing.

Ask around, and you'll find that our name stands for one more thing in the Macintosh industry. Reliability.

That's because, at GCC Technologies, we qualify and test every product we make. You can count on that.

We subject our products to voltage tests. Temperature tests. Humidity tests. Shock tests. Vibration tests. Drop tests. And finally, a never-ending battery of compatibility tests.

When it comes to testing, some of our competitors say we even go too far. But our customers don't think so.

Quality Guaranteed.

If our qualifying and testing doesn't convince you of our dedication to providing reliable products, then consider that we also back

Our Customer Service Representatives are always ready to handle your calls.

everything we make with a generous warranty. Two years parts and labor on hard disks and film recorders. One year parts and labor on all printers.

And not only do we guarantee our products, we guarantee answers. If you ever have a question or problem, you can call our toll-free

customer service hot line and speak directly to our expert staff.

Network Of GCC Dealers.

If you'd prefer a face-to-face solution, we offer a national network of GCC authorized dealers. All are GCC product experts, as well as Macintosh professionals.

If that's still not convenient for you, and you need service, send your equipment back to us.

XEROX

We'll fix it here. If it's a laser printer, you can even take it to your nearest Xerox® service center. Just call us for details.

Finally, for every product you order directly from us, we offer a 30-day money-back guarantee. No questions asked.

If you're going to be a GCC customer, we want you to be a satisfied one.

Ordering Is Easy.

To order any of our products, just call us at 800-422-7777 (Fax 617-890-0822) between the hours of 9 AM and 8 PM (EDT) on weekdays, or between 10 AM and 4 PM (EDT) on Saturdays. Our trained and knowledgeable staff will take your order, or, if you'd prefer, give you the name of the authorized GCC Technologies dealer nearest you. Not only that, we have

Some of the people in our manufacturing team who test and assemble our products.

experts that will be glad to answer any questions you might have, provide technical support, or offer advice on choosing and getting the most out of any of our products.

A Decade of Commitment!

At GCC Technologies, we design products that we ourselves aspire to own. That has been our goal since we opened our doors ten years ago. To help celebrate our "Decade of Commitment," we are offering a limited-time $100 factory-direct rebate on every GCC laser printer you buy.

Order your printer directly from us or visit an authorized GCC dealer to get an upclose look at our exciting new laser printers. When you buy one, we'll rebate you $100! Whether you buy a GCC printer or not, we'll send you a free copy of QuickEnvelope, our envelope printing utility, just for visiting a dealer and "test-driving" our laser printers.

GCC'S DECADE OF COMMITMENT $100. REBATE

We would like to hear from you regarding our products or service.

"I have owned a Personal LaserPrinter for over two years and the support I received was always courteous, knowledgeable, and exceptionally responsive. As the president of a small business, I know that such support does not just happen. You obviously have set and implemented a policy of standing behind your products. In addition, you support an excellent staff whose members are knowledgeable and responsive to customer needs. GCC is truly a customer oriented company!"

Thomas P. Mulkerin

"When we recently moved, a small part slipped off the paper tray opening on my PLP and disappeared into limbo. I called your customer service folks and the person on the other end of the phone actually listened to me! Your company's commitment to customer service is not only good business for you, but it's also something the Mac community at large should support. I'll mention that to my Mac friends when they ask for my advice on their next hardware purchase."

David D. Brown

"I am writing to let you know about the excellent service I have been receiving from Keith Niemyjski. He has an answer for every problem I've encountered. His professional and positive attitude have made it a pleasure dealing with GCC! I am looking forward to dealing with Keith in the future. I am sure he can keep up the excellent service!"

John Chevalier

"I would like to tell you that the second program I ordered from you, QuickEnvelope, is great. Also, your telephone and overnight service can't be beat. Your return policy is also outstanding. I look forward to ordering more of your products in the future."

Peggy A. Taylor

"A word of thanks to all of you for your cooperation and support. Service like yours in today's business environment is not common. Prompt, professional, courteous response to product problems is something which we the customer cannot pay for. Again, thank you and keep up the good work!"

David J. Austin

The advanced technology of the SCSI port on BLP II and BLP IIS allows for the connection of a hard disk for additional font storage.

(dpi) and every one able to be rotated and scaled between 25% and 400% in one percent increments.

With both BLP II and BLP IIS, you get the latest version of PostScript, plus new, high-speed ATM™ (Adobe Type Manager™) font rendering, which means you'll be printing your PostScript documents faster than ever. To boost performance even further, there's also a SCSI port, so you'll always have access to unlimited down-loadable fonts.

User-Friendly LCD Display.

What makes the BLP II printers such a breakthrough is that they give you features you won't even find on many of the higher-priced PostScript printers.

For example, there's the user-friendly front-panel LCD display, a *MacUser* favorite, which allows you to monitor and configure the printer in any number of ways. With the display, you can set your print density to one of five different settings. You can display the number of pages printed. You can configure the printer so that it doesn't print a test page, saving your valuable time, toner, and paper.

Also, with our unique "sleep mode," you can set the printer to automatically silence itself when not in use. Couldn't your noisy office use a little peace and quiet?

Other Powerful Features.

While we're on innovation, BLP II and BLP IIS also feature a patented toner recycling system, thereby making printing less expensive. There's also edge-to-edge printing, which comes in very handy when printing flow charts and spreadsheets. And with GCC's desk accessory, QuickEnvelope,™ which is included with every BLP II, even printing envelopes is a snap.

BLP II and BLP IIS also handle a variety of paper weights, including transparencies and envelopes, which are easily printed via a straight-through paper path. Standard, too, is a letter-size tray that holds up to 200 sheets of paper, while other trays are available for US legal, A4, B5, and, of course, envelopes. Plus, there's a manual feed slot for other sizes of paper and envelopes.

Compatibility.

Of course, when it comes to working with others, the BLP II printers couldn't be more accommodating. Both feature built-in AppleTalk,® which allow them to be used with Macintoshes as well as with properly configured IBM PC's and compatibles.

What's more, with our PC Accessories Kit, you'll have everything you need to start communicating right away with your IBM PC or compatible. The kit includes serial and parallel interface cards, comprehensive utility software, and software that allows you to boost the serial performance of your PC. And, if PostScript isn't your language, the BLP II and BLP IIS even support HP LaserJet and Diablo 630 emulations.

And as with every product we make at GCC Technologies, you can be sure that BLP II has been tested, tested and tested again to make sure it's compatible with all of your favorite software, as well as with Apple's System 7.0.

The Answer To PostScript Printing.

For anyone in the market for a PostScript printer, BLP II and BLP IIS represent a significant breakthrough.

Never before has a PostScript printer been so affordable. So fast. So powerful. So easy to use. Or so compatible.

The BLP II and the BLP IIS. It looks as though we've done it again.

Business LaserPrinter II (4 ppm engine)
Comparable Retail Price $3,699
Your GCC Direct Price   **$2,399**
Business LaserPrinter IIS (8 ppm engine)
Comparable Retail Price $4,799
Your GCC Direct Price   **$2,899**
Accessories & Consumables:

BLP II/S Toner	$33
BLP II/S EP Magazine	$289
BLP II/S Additional Paper Trays (each)	$89
BLP II/S 2MB RAM Upgrade	$299
BLP II/S PC Accessories Kit	$149
BLP II/S HP Emulation Kit	$149
Laser Bond Paper (qty. 1,000)	$16

C O R V E T

1967 CORVETTE
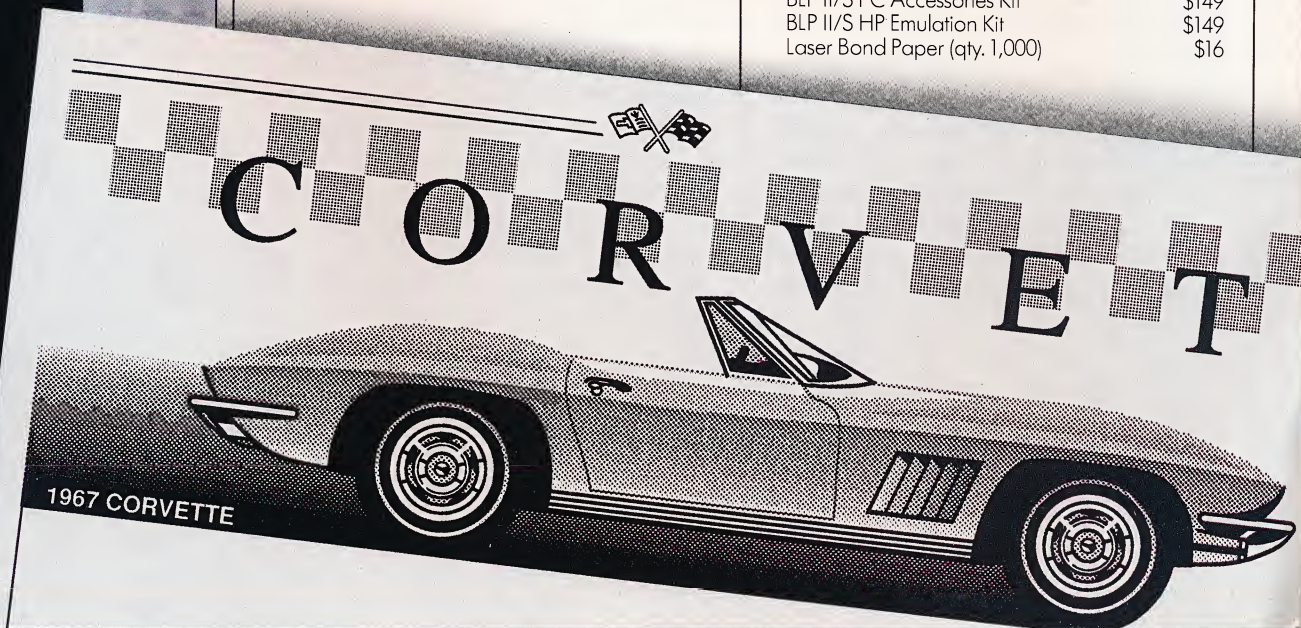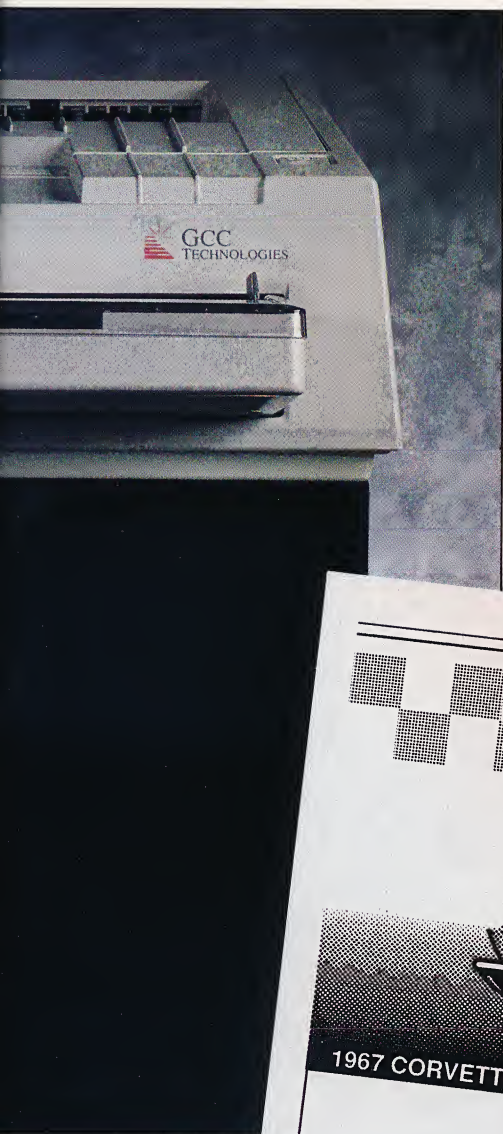
THE LOWEST PRICED LASER PRINTER EVER. THE NEW PLP II.

It was bound to happen. Expensive laser printing, with its professional, razor-sharp, clean output, couldn't remain expensive forever. Technology was bound to triumph.

Introducing the GCC Technologies Personal LaserPrinter II (PLP II), the lowest-priced Macintosh laser printer ever. And the triumphant recipient of *MacUser* magazine's 1989 Editors' Choice Award.

Affordable By Design.

The huge engineering breakthrough that brought down the price of laser printing was in fact a small one.

At GCC, we took all of the specialized hardware from our QuickDraw™ Personal Laser-Printer and combined it into a single, custom-designed chip for PLP II. It was this chip, along with the time-proven software of the Personal LaserPrinter, and an impressive new print engine, that enabled us to make this incredible, high-quality laser printer at such an incredibly low price.

This letter "a," in Times® Roman, is shown at the actual size it was printed — the left side printed by a laser printer using bitmap fonts, and the right side by the PLP II using outline fonts. With PLP II's outline fonts, the characters are much crisper and cleaner, and the same degree of clarity is maintained regardless of the point size, angle, or style.

its use of high-quality Bitstream® outline fonts, the same font technology you'll find in PostScript printers costing three times as much.
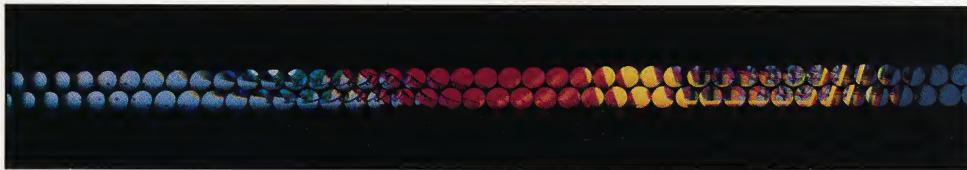
Hundreds of miniature lenses focus light with pin-point accuracy onto PLP II's photo-sensitive drum.

The Proof Is In The Printing.

No laser printer, regardless of its price, has blacker type than PLP II. And because PLP II uses a third generation engine, no other 300 dots per inch (dpi) laser printer will give you type that's any sharper, any crisper, or any cleaner.

In fact, compare the quality of PLP II's text and graphics to that of Apple's $5999 (U.S. $) Laser-Writer II NTX and you'll be amazingly surprised. There is no difference. Except of course, the price tag.

High-Quality Outline Fonts.

The reason for PLP II's exceptional clarity becomes even more clear when you consider

With PLP II, you get the core set of 22 fonts (see page 18), including Bitstream's versions of Palatino® and Helvetica® Narrow. Add font packages, like Fonts Plus,™ Publishers' Choice™ and Headliners,™ and you get over 60 different fonts. And if that's still not enough, with GCC's MacFontware Converter or Adobe Type Manager (ATM), you'll have thousands of fonts from which to choose.

More On Outline Fonts.

Since PLP II uses high-quality outline fonts,

your print options are virtually unlimited.

You can create true bolds. And true italics. You can shape and scale characters to any size. You can rotate text and graphics to any angle without affecting the quality of the output. And you can print each of them in a variety of sizes from 2 to 500 points, all at 300 dpi.

Other Flexible Features.

PLP II also offers some very attractive options when it comes to printing your documents. You can reduce and enlarge them from 25% to 400%, in 1% increments. You can print "edge-to-edge," which comes in very handy when printing flow charts, spreadsheets, and banners. You can quickly print your documents in one of two draft modes.

GCC'S DECADE OF COMMITMENT

$100 REBATE

Factory-Direct Rebate on PLP II.
Order now & save! Call for details.

GCC TECHNOLOGIES

There's also a "Preview" option, which will save you time, paper, and toner. And when your document is ready, you can print it in high-quality mode, at a full 300 dpi.

PLP II also supports a variety of paper weights, including transparencies and envelopes. Standard with PLP II is a North American letter-size tray that holds up to 200 sheets of paper, while other trays are available for US legal, A4, B5, and envelopes. Also included is our new software desk accessory called QuickEnvelope, which makes printing envelopes a snap (See page 17).

Handsome, Quiet, and Friendly.

At just over 5 inches high, and weighing only 24 pounds, PLP II's streamlined design is a welcome addition to any office.

In fact, you'll hardly know PLP II is there at all. With its silent "sleep mode," PLP II automatically silences itself when it's not in use, which helps to minimize distracting office noise.

Finally, with its user-friendly front panel LCD display, you can access many of PLP II's other outstanding features. With the simple push of a button, you can set the SCSI ID, check the percentage of consumables used, adjust PLP II's print density to one of five levels, print a test page, and believe it or not, display each of the front panel's options in one of seven different languages.

A Host Of Applications.

PLP II works easily with all your applications. In fact, PLP II has been tested for compatibility with all of the leading Macintosh software, from MacWrite® II and Aldus® Page-Maker® to Apple's System Software, past, present and future.

If you find that your needs change, demanding the power of a PostScript printer, you can easily upgrade your PLP II to our PostScript printer, the BLP II. The additional cost of this upgrade, with the cost of the PLP II, will be no more than the cost of the BLP II.

Put simply, PLP II offers what no other laser printer can: high quality and affordability.

Which is not only a triumph for technology, but for our customers as well.

Personal LaserPrinter II (4 ppm engine)
  Suggested Retail Price $1,999
  Your GCC Direct Price   **$1,399**
BLP II PostScript Upgrade   **$999**
For accessories, see page 26.
(N.B.: The PLP II is internally terminated.)

GCC'S DECADE OF COMMITMENT

$100.REBATE

**Factory-Direct Rebate on PLP IIS.
Order now & save! Call for details.**

PLP IIS
Ready at SCSI 3

Menu   +   –   Enter

Manual Feed   Reset

PLP II S

**GCC
TECHNOLOGIES**

Letter

800-422-7777

All GCC products come with a 30-day
money back guarantee.

Vol. V
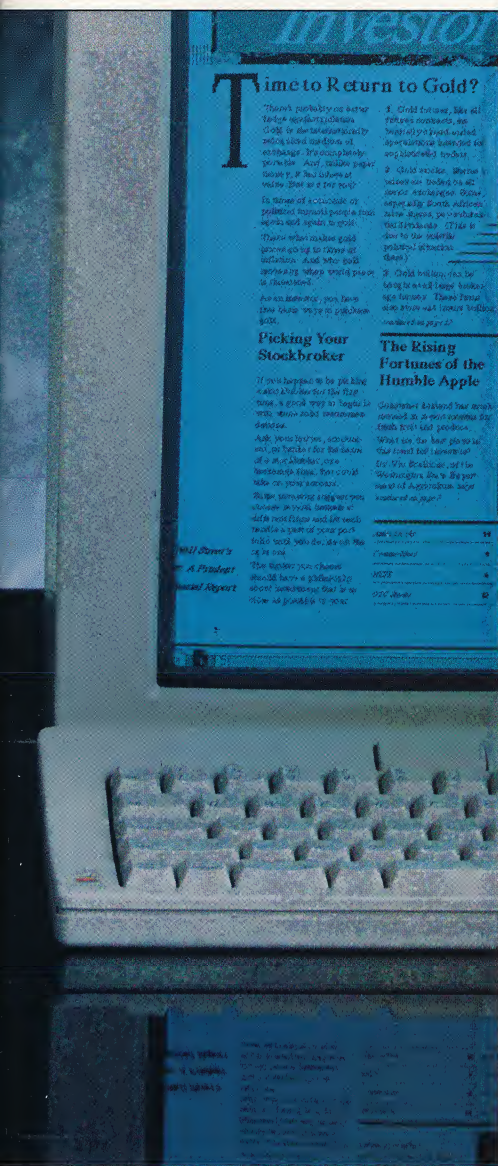No. 2

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THE **PRUDENT Investor**

...ime to Return to Gold?

There's probably no better
...inst inflation.

1. Gold futures, like all
futures contracts, are
basically closed-ended
...s intended for

70
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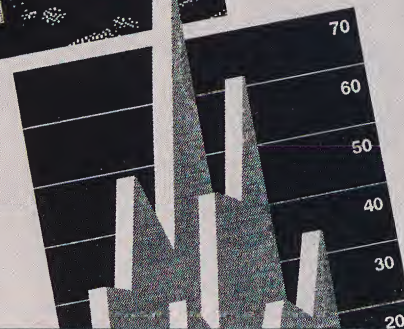
THE NEW PLP IIS.
MORE POWER TO YOU.

There's no doubt that today's Macintosh office is becoming more and more powerful.

Macintosh processors are working more quickly than ever. Storage devices are becoming larger and faster. Applications are more plentiful, and more complex. And laser printers? No power problem there.

Introducing the GCC Technologies Personal LaserPrinter IIS (PLP IIS). It's the first affordable laser printer for Macintosh power users.

Award Winning.
And Then Some.

The new PLP IIS features all of the breakthrough technology of the award-winning PLP II, with some very powerful extras.

Extras like a faster, 8 page per minute engine. One megabyte of RAM. And 18 additional fonts.

One Megabyte of RAM.

One megabyte of RAM is standard on every PLP IIS, which means you can process and print your documents more quickly.

For example, while the PLP IIS is printing the first page of your document, your Macintosh can process the next page. You can also save time when printing multiple copies of the same page. After the first page is printed, you can use your Macintosh for other tasks.

A Powerful Font Library.

With PLP IIS, you get a core set of 22 fonts (see page 16), plus you get an additional font package called Fonts Plus, which means you now have 40 fonts to choose from.

You can also add other font packages, like Publishers' Choice and Headliners, which combine for a total of 60 different fonts. And there's GCC's MacFontware Converter and support for Adobe Type Manager (ATM), which gives you literally thousands of fonts to choose from.

More Powerful Features.

Just like PLP II, the more powerful PLP IIS provides all kinds of flexibility when it comes to printing. You get the same high-quality outline fonts, which can be shaped, scaled, rotated, and printed in a variety of sizes from 2 to 500 points. You can print "edge-to-edge." You can reduce and enlarge documents from 25% to 400%, in 1% increments. You can print your documents in one of two draft modes, or in high-quality mode at 300 dots per inch (dpi).

PLP IIS gives you just as much flexibility with paper. PLP IIS supports a variety of paper weights, including transparencies and envelopes. A US letter-size tray comes standard on the North American version, while other trays are available for US legal, A4, B5, and envelopes. And, as with the PLP II, the new GCC software desk accessory, QuickEnvelope, is included, so printing envelopes couldn't be easier.

Powerful Design.
Powerful Applications.

The attractive, streamlined PLP IIS is designed with many other important features. Its "sleep mode" automatically silences the printer when PLP IIS is not in use. And the front panel LCD display allows you to set the SCSI ID, adjust the print density, check the percentage of consumables used, as well as control many other options that come with the PLP IIS.

And, of course, PLP IIS is compatible with all of the leading Macintosh applications. And when Apple's System Software 7.0 is available, you can be sure PLP IIS will be compatible with it as well.

To make your PLP IIS more powerful, a PostScript upgrade to transform your PLP IIS into a BLP IIS is available. The cost of making this upgrade, along with the cost of the PLP IIS, is the same as if you had bought a BLP IIS originally.

The Personal LaserPrinter IIS. May the power be with you.

Personal LaserPrinter IIS (8 ppm engine)
Suggested Retail Price $2,799
Your GCC Direct Price   **$1,899**
BLP IIS PostScript Upgrade   **$999**
For accessories, see page 26.

PLP IIS is shipped complete with a detailed manual and accompanying software, including GCC's Fonts Plus and QuickEnvelope.

PRESENTING A VERY SMALL BREAKTHROUGH IN INKJET PRINTING

Now you can have the high-quality look of inkjet printing away from the office or home.

Presenting the biggest idea, or rather the smallest, ever in portable printing. It's WriteMove,® a very small (2"x6.5"x10.8"), very light (3 lbs.), very quiet, and very portable inkjet printer.

In fact, it's the first and finest portable printer for the Macintosh.

Near-Laser Quality.

When a printer is this portable, one might be suspect of the output. But fear not, because with WriteMove, your output is near-laser quality. WriteMove utilizes our QuickDraw™ imaging software, the very same imaging software you'll find in our Personal LaserPrinter II (PLP II).

And, also like our PLP II, WriteMove features 22 high-quality Bitstream outline fonts, which can be shaped, scaled, or rotated to any size at a full 192 dots per inch (dpi).

Additional fonts are available with our Fonts Plus, Headliners, or Publishers' Choice font packages. And with the addition of GCC's MacFontware Converter and support for Adobe Type Manager (ATM), you can extend your font library to over 1,000 fonts. Whatever the number, every one of them will be crisp, clean, and razor-sharp.

A Lot Of Flexibility.

With WriteMove, you can also reduce and enlarge documents from 25% to 400%, in 1% increments. Think about that the next time you have an extra column on your spreadsheet.

Plus, you can print in two modes. There's draft mode, which quickly prints images at 96 dpi, in case you want to do some quick editing. Also, there's high-quality mode, incredible near-laser quality output at 192 dpi.

With WriteMove, you have some other choices as well. Like a "Print Later" option so documents can be batched for printing at a later time. And a "Preview" option for viewing a document on screen before it's printed.

WriteMove also supports tractor-fed and sheet-fed paper in all standard sizes: US letter, US legal, A4, and B5.

Ready To Go.

WriteMove not only comes with a lot of capabilities, it also comes with everything you need to start printing right away. Every WriteMove comes complete with cable, power supply, inkjet cartridge, and sample paper pack. There is even a built-in battery recharger for the optional NiCad batteries.

It also comes with all the software necessary to start printing from all your applications. So you can print text from MacWrite II and Microsoft Word. Spreadsheets from Excel. Graphics from MacDraw® II. Presentations from Persuasion.™ And, desktop publishing documents from Aldus PageMaker and LetraSet's® Ready, Set, Go!™

Of course, QuickSpool™ II, GCC's own print spooler, is also included. This software enables you to continue working with your Macintosh even while you print.

Whether on a trip, or journeying between home and office, WriteMove is the perfect printer for people who travel with their Macintosh.

In fact, it's more printer than most people have who don't travel at all.
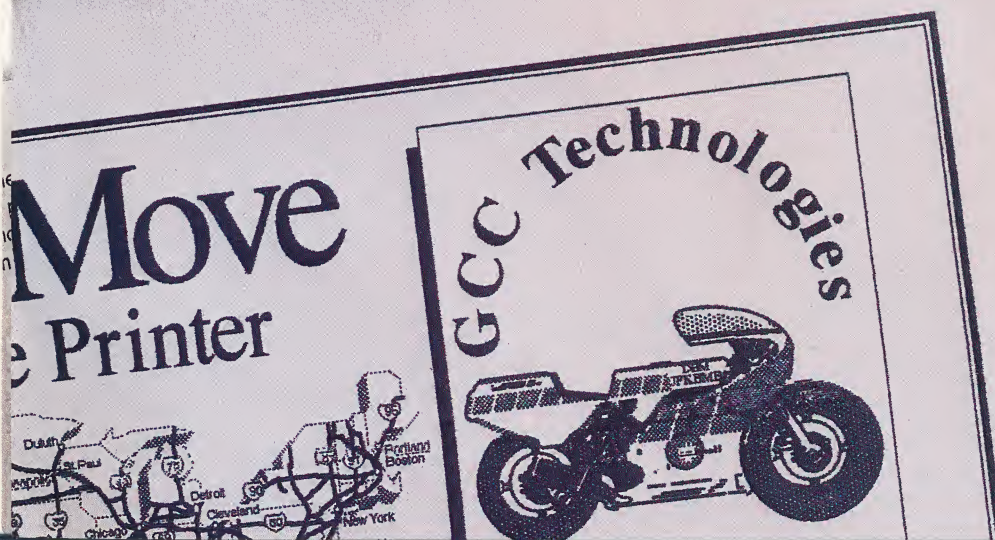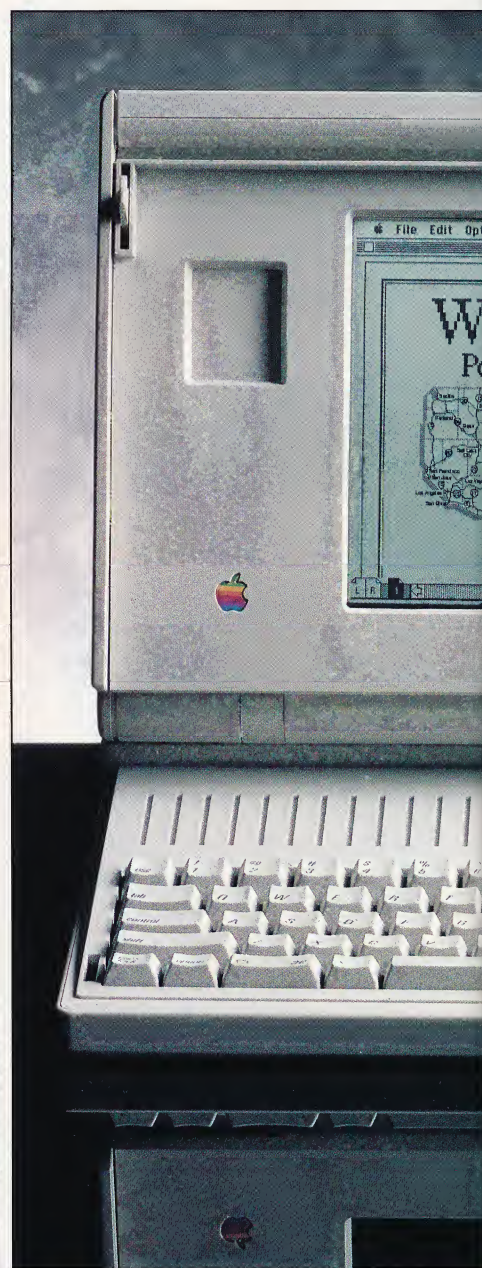
WriteMove (with inkjet cartridge, cable,
sample paper, and power supply)
Suggested Retail Price $699
Your GCC Direct Price   **$549**

Accessories and Consumables:
WriteMove Inkjet Cartridges (set of 3)	$42
Inkjet Paper (500 sheets)	$25
WriteMove Carrying Case	$30
WriteMove Printer Stand	$25
WriteMove Accessory Kit	$249
(Fonts Plus, 250 sheets of inkjet paper, carrying case, and printer stand.)	

800-422-7777

All GCC printers come with a
one-year warranty.

WriteMove's innovative design allows the printer to be
powered from five C-size NiCad rechargeable batteries
which are housed inside the printer's platen.

800-422-7777

A decade of commitment.

FINALLY, THE PERFECT COMBINATION OF FORMS AND FUNCTION.

Until now, if you needed to print forms, you bought a printer designed for forms. Which meant you had to compromise on overall functionality.

But now, there's WriteImpact,™ the 24-pin dot-matrix printer from GCC. And you no longer have to compromise on anything. Including print quality.

Breakthrough Print Quality.

WriteImpact is a high-resolution impact printer — 180 vertical x 360 horizontal dots per inch (dpi).

WriteImpact includes 22 high-quality outline fonts. You can add more with GCC's Fonts Plus, Publishers' Choice, or Headliners font packages. There's also support for Adobe Type Manager (ATM), which enables you to choose from thousands of fonts.

Like the outline fonts on our laser and inkjet printers, WriteImpact's fonts are every bit as flexible. They can be shaped. Reduced and enlarged. Rotated to any angle. And they can be printed in a variety of point sizes — from 2 to 500 points (1/32" to 7" high).

Paper Versatility.

WriteImpact is just as versatile when it comes to paper handling.

For starters, you can choose push or pull tractor-feed paper. With either, you have the ability to print on multi-part forms.

And, thanks to automatic paper loading and parking, you can save time while loading your envelopes and single sheets without even removing the tractor-feed paper.

Make use of WriteImpact's paper tear feature, and at the push of a button, the printer positions the paper so that it can be easily removed. Push the button again, and WriteImpact perfectly repositions the paper.

A Workhorse Printer.

Simply put, no printer can put in a harder day's work than WriteImpact.

That's because no other impact printer in the Macintosh market has been built to such relentless standards of reliability.

Need to print multi-part forms, checks, or invoices? No problem. Need to print a huge mailing to clients? No problem. No matter how long or how hard the job, WriteImpact can handle it.

Ready To Go.

When you judge WriteImpact, you shouldn't just look at what comes out of the printer, you should also look at what's gone into it.

Take for example GCC's software utilities included with WriteImpact. There's QuickEnvelope, an easy-to-use envelope printing desk accessory. And then of course there's QuickSpool II, for those times when regaining the use of your Macintosh isn't something you can wait for.

What's more, WriteImpact is shipped with all the hardware and software necessary to connect it to your Macintosh, including cable and ribbon cassette. WriteImpact will also be ready to work with Apple's System Software 7.0.

State-of-the-art technology. And a system that's ready to go. Certainly no other impact printer gives you as much.

A variety of paper paths gives WriteImpact versatility in paper handling. Rear and bottom feeds are designed to accommodate tractor-feed style paper, while front feed provides maximum convenience for cut sheets and envelopes.

WriteImpact
Suggested Retail Price $999
Your GCC Direct Price $699
Accessories and Consumables:
Ribbon Cassettes (set of 2) $26
Automatic Sheet Feeder $169
Tractor-feed Paper (500 sheets) $25

WriteMove

Weighing only three pounds, the WriteMove portable printer is a QuickDraw printer designed for the Macintosh owner requiring high-quality printing while on the go. The typical Write-Move owner would own a Macintosh Portable or a "classic" Macintosh (SE, SE/30, Plus), and would frequently carry work between the office and home. This printer uses compact inkjet technology to deliver rich blacks and crisp output. Since the WriteMove features a universal power supply and can also be powered off of NiCad rechargeable batteries, the WriteMove is especially beneficial for the international traveler.

Print Engine:
Kodak/Diconix 150S (with customized hardware)
Print Method:
Drop-on-demand thermal inkjet
Resolution:
192x192 dpi — High-Quality
96x96 dpi — Draft

Print Engine Speed:
Varies with image complexity and CPU speed
Interfaces:
Serial

Page Description Software:
QuickDraw and its extensions (picture comments) and constrained outline fonts
Paper Sizes:
Letter, legal, A4, B5
Paper Types/Handling:
Plain, inkjet, tractor-feed, cut-sheets, transparencies.

Printable Surface Area:
.71" left and right margin
.5" top and bottom margin

Dimensions:
Portable at 2.0"x6.5"x10.8" (5.1x16.5x27.4 cm)
Weight:
3 lbs. (1.4 kgs) without batteries
Fonts Included:
Times, Helvetica, Swiss Narrow, Courier, Symbol, and Bitstream Zapf Calligraphic (a version of Palatino)

System Requirements:
Macintosh Plus or above, and a hard disk or FDHD
Minimum Engine Life:
Indefinite
Memory:
8K buffer

Power:
AC: 120 VAC, 60 Hz, wall-mount; output 9V/1A
Batteries: (not included) 5 "NiCad" rechargeable, 40 minutes of printing per charge; 13 watts max.
Noise Level:
Operational: 45 dB max.
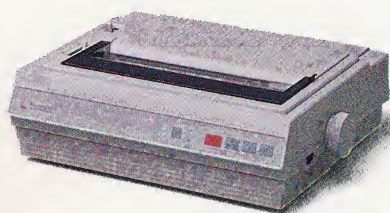
WriteImpact

The 24-pin WriteImpact is a QuickDraw printer that best suits those individuals who need letter-quality printing at an affordable price. The Write-Impact is a heavy-duty printer and is ideal for printing large mailings, multi-part forms, invoices, and checks. Designed to handle the bulk of these types of print jobs, the WriteImpact features flexible paper handling and multiple paper paths. Its 24-pin printing makes for higher resolution and more well-defined output than other impact printers currently in the market.

Print Engine:
Panasonic KX-P1124 (with customized hardware)
Print Method:
24-pin impact serial dot matrix
Resolution:
360x180 vertical dpi — High-Quality
180x180 dpi — Medium
60x60 dpi — Graphics Draft
60x60 dpi — Text Draft
Print Engine Speed:
192 cps max.
Interfaces:
Serial

Page Description Software:
QuickDraw and its extensions (picture comments) and constrained outline fonts
Paper Sizes:
Letter, legal, A4, B5
Paper Types/Handling:
Push/pull tractor feed, friction feed, with automatic paper loading and paper parking. Optional cut-sheet feeder available. Continuous fanfold or single sheet, envelopes, original and up to 3 non-carbon copies.
Printable Surface Area:
.25" left and right margin
.375" top margin
1" bottom margin
top to bottom on continuous paper
Dimensions:
16.9"x14.1"x5.6" (43.0x35.9x14.3 cm)
Weight:
Approx. 18.7 lbs. (8.5 kgs)
Fonts Included:
Times, Helvetica, Swiss Narrow, Courier, Symbol, and Bitstream Zapf Calligraphic (a version of Palatino)

System Requirements:
Macintosh Plus or above and a hard disk
Minimum Engine Life:
Indefinite
Memory:
22K buffer

Power:
120 VAC, 60 Hz.; 480 watts max., 40 watts min.

Noise Level:
Operational: 63 dB max.

Personal LaserPrinter II

GCC's award-winning Personal LaserPrinter II (PLP II) is a single-user QuickDraw laser printer for the customer who requires uncompromising quality at an affordable price. Harnessing the power of the Macintosh, the 4 page per minute (ppm) PLP II is able to produce razor-sharp 300 dots per inch (dpi) text and graphics at a fraction of the cost of PostScript printers. The PLP II has a duty cycle of 3,000 pages per month and is best suited for medium volumes of output.

Print Engine:
Oki OL-400 (with customized hardware)
Print Method:
Dry-type electrophotographic printing
Resolution:
300x300 dpi — High-Quality
150x150 dpi — Medium
75x75 dpi — Draft

Print Engine Speed:
4 ppm max. (actual speed depends on image printed)
Interfaces:
SCSI (Small Computer System Interface)

Page Description Software:
QuickDraw and its extensions (picture comments) and constrained outline fonts
Paper Sizes:
200 sheets of letter, legal, A4, B5
Paper Types/Handling:
Cut sheets, envelopes, transparencies, labels.

Printable Surface Area:
Edge to edge printing
.25" top margin

Dimensions:
5.24"x17.7"x17.7" (13.3x45.0x45.0 cm)
Weight:
24.2 lbs. (11.0 kgs)
Fonts Included:
Times, Helvetica, Swiss Narrow, Courier, Symbol, and Bitstream Zapf Calligraphic (a version of Palatino)

System Requirements:
Macintosh Plus or above and a hard disk
Minimum Engine Life:
180,000 pages or 5 years
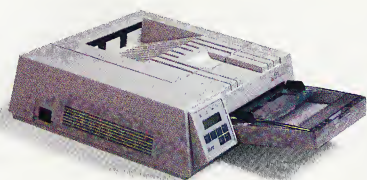**Memory:**
Expandable to 1 MB RAM (1 MB SIMM, 150 ns, low-profile)

Power:
120 VAC (240 VAC on the 240 version), 50/60 Hz.; 800 watts max., 70 watts standby.

Noise Level:
Operational: 50 dB max.
Standby: 43 dB max.

Personal LaserPrinter IIS

The Personal LaserPrinter IIS (PLP IIS) takes the breakthrough technology of the PLP II even one step further. Designed for the Macintosh power user, the PLP IIS comes standard with a faster print engine (8 ppm), an extended font library, and one megabyte of built-in RAM. The system configuration for the PLP IIS customer would typically consist of a high-power Macintosh, such as a Macintosh SE/30 or any of the Macintosh II family. The PLP IIS also features an extra heavy-duty print engine with a rated duty cycle of 5,000 pages per month for printing high volumes of output.

Print Engine:
Oki OL-800 (with customized hardware)

Print Method:
Dry-type electrophotographic printing

Resolution:
300 x 300 dpi — High-Quality
150 x 150 dpi — Medium
75 x 75 dpi — Draft

Print Engine Speed:
8 ppm max. (actual speed depends on image printed)

Interfaces:
SCSI (Small Computer System Interface)

Page Description Software:
QuickDraw and its extensions (picture comments) and constrained outline fonts

Paper Sizes:
200 sheets of letter, legal, A4, B5

Paper Types/Handling:
Cut sheets, envelopes, transparencies, labels.

Printable Surface Area:
Edge to edge printing
.25" top margin

Dimensions:
5.24"x17.7"x17.7" (13.3x45.0x45.0 cm)

Weight:
24.2 lbs. (11.0 kgs)

Fonts Included:
All PLP II fonts and Fonts Plus package (Century Schoolbook, ITC Bookman, ITC Avant Garde, Cooper Black, ITC Zapf Chancery, ITC Zapf Dingbats, and Futura Extra Black)

System Requirements:
Macintosh Plus or above and a hard disk

Minimum Engine Life:
300,000 pages or 5 years

Memory:
1 MB of RAM standard

Power:
120 VAC (240 VAC on the 240 version), 50/60 Hz.;
800 watts max., 70 watts standby.

Noise Level:
Operational: 53 dB max.
Standby: 43 dB max.

Business LaserPrinter II

The Business LaserPrinter II is a PostScript printer designed for personal laser printing or small networks of up to five people. The BLP II is designed for customers concerned with networking features, emulations, font storage, and price. System configuration could range from a single or multiple Macintosh network, to a multi-platform environment consisting of Macintosh, IBM PC, and compatible computers. The BLP II is based on the award-winning 4 ppm print engine of the PLP II and is well-suited for customers using extensive graphics. With a rated duty cycle of 3,000 pages per month, the BLP II is best used by customers printing medium volumes of output.

Print Engine:
Oki OL-400 (with customized hardware)

Print Method:
Dry-type electrophotographic printing

Resolution:
300 x 300 dpi

Print Engine Speed:
4 ppm max. (actual speed depends on image printed)

Interfaces:
Apple Talk, SCSI port (for hard disk font storage)
Centronics parallel (optional), RS-232C serial (optional)

Page Description Software:
Adobe PostScript v. 52.3 running on 16.67 MHz 68000 microprocessor. Optional HP LaserJet Series II and Diablo 630 emulations

Paper Sizes:
200 sheets of letter, legal, A4 or B5

Paper Types/Handling:
Cut sheets, envelopes, transparencies, labels.

Printable Surface Area:
Edge to edge printing
.25" top margin

Dimensions:
5.24"x17.7"x17.7" (13.3x45.0x45.0 cm)

Weight:
24.2 lbs. (11.0 kgs)

Fonts Included:
Standard set of 35 PostScript fonts

System Requirements:
Any Macintosh

Minimum Engine Life:
180,000 pages or 5 years

Memory:
2 MB of RAM, expandable to 4 MB, (two fx/NTX style, 1 MB SIMMS, 80 ns, low-profile)

Power:
120 VAC (240 VAC on the 240 version), 50/60 Hz.;
800 watts max., 70 watts standby

Noise Level:
Operational: 50 dB max.
Standby: 43 dB max.

Business LaserPrinter IIS

The Business LaserPrinter IIS (BLP IIS) is an 8 ppm version of the BLP II and is based on the high-power engine of the PLP IIS. This PostScript printer is ideally used on larger networks of six or more people. As with the BLP II, the BLP IIS is designed for customers requiring the use of extensive graphics, or for those concerned with networking, speed, emulations, and font storage. With a rated duty cycle of 5,000 pages per month, the BLP IIS is equipped to handle the demands of high volumes of output.

Print Engine:
Oki OL-800 (with customized hardware)

Print Method:
Dry-type electrophotographic printing

Resolution:
300 x 300 dpi

Print Engine Speed:
8 ppm max. (actual speed depends on image printed)

Interfaces:
Apple Talk, SCSI port (for hard disk font storage)
Centronics parallel (optional), RS-232C serial (optional)

Page Description Software:
Adobe PostScript v. 52.3 running on 16.67 MHz 68000 microprocessor. Optional HP LaserJet Series II and Diablo 630 emulations

Paper Sizes:
200 sheets of letter, legal, A4 or B5

Paper Types/Handling:
Cut sheets, envelopes, transparencies, labels.

Printable Surface Area:
Edge to edge printing
.25" top margin

Dimensions:
5.24"x17.7"x17.7" (13.3x45.0x45.0 cm)

Weight:
24.2 lbs. (11.0 kgs)

Fonts Included:
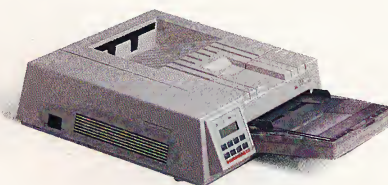Standard set of 35 PostScript fonts

System Requirements:
Any Macintosh

Minimum Engine Life:
300,000 pages or 5 years

Memory:
2 MB of RAM, expandable to 4 MB, (two fx/NTX style, 1 MB SIMMS, 80 ns, low-profile)

Power:
120 VAC (240 VAC on the 240 version), 50/60 Hz.;
800 watts max., 70 watts standby

Noise Level:
Operational: 53 dB max.
Standby: 43 dB max.

WHETHER OUR FONTS ARE 2 POINTS OR 500 POINTS, THEY'RE ALL FINE PRINT.

Think about it. It's quite a statement to be able to make.

Really, how many printers can say that their fonts maintain the same definition of the character whether the font is 1/32" small or 7" tall?

We'll help you out. Not many.

The reason is most printers don't use high-quality outline fonts. It's just that simple.

Outline fonts. You either have them. Or you don't.

At GCC Technologies, every printer we offer uses high-quality outline fonts.

It's why you can do so much more with our type. Like shape and scale it to any size. Expand it and condense it. Rotate it to any angle without affecting the quality of the output. Create true bolds. And true italics.

With our high-quality outline fonts, you have all kinds of possibilities.

With our Core Fonts, which are standard on Personal LaserPrinter II (PLP II), PLP IIS, WriteMove, and WriteImpact, you get 22 different fonts. For example, you'll get Times,® the world's most popular serif typeface.

For those customers who do substantial amounts of desktop publishing, GCC offers three additional font packages, all of which are designed to increase the range of typeface possibilities when used with any of our Quick-Draw printers.

With our font package called Fonts Plus, you can add 18 more fonts to all three of our QuickDraw printers, including Cooper Black®

High-quality outline fonts are defined mathematically as a complex series of arcs and line segments. These definitions, unlike "bitmap" fonts, may be scaled or rotated to any size or angle. Information on character width, kerning, and accent placement is also contained in the font. Outline fonts succeed in preserving the essentials of good type design — shape, spacing, weight, rhythm — at all sizes and resolutions.

and Futura® Extra Black, two headline fonts created for "far-sighted printers with near-sighted customers."

With Headliners, you can add even more fonts — 12 in all — including Engravers'® Old English, the typeface most appropriate for creating formal headlines and announcements. Or if you prefer an informal style, that's no problem. We've also included Brush Script,® the typeface ideal for those times when a hand-drawn look is all you need.

And with Publishers' Choice, you have a choice of 8 more fonts, four of which are ITC Garamond® Condensed, the typeface commonly associated with the Macintosh industry.

But that's just the beginning. Because the GCC MacFontware Converter allows you to convert Bitstream's Type F fonts into a format which can be used with any of GCC's QuickDraw printers, including the new PLP II, PLP IIS, WriteMove, and WriteImpact.

And that's not all. Now with support for Adobe Type Manager (ATM), your font selections are limited only to your own imagination. Go ahead. Try and count the possibilities. You'll find that they're staggering.

But don't take our word for it. Why not read the fine print yourself?

Font Packages available for the PLP II, PLP IIS, WriteMove, WriteImpact and ColorFast:

Fonts Plus	**$239**
Headliners	**$239**
Publishers' Choice	**$239**
GCC MacFontware Converter	**$29**

CORE FONTS

Times
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Helvetica
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Zapf Calligraphic (like Palatino)
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Swiss Narrow (like Helvetica Narrow)
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Courier
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Συμβολ (Symbol)
αβχδεφγηιφκλμνοπθρστυπωξψζ
ΑΒΧΔΕΦΓΗΙϑΚΛΜΝΟΠΘΡΣΤΥςΩΞΨΖ

FONTS PLUS

Century Schoolbook
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Bookman
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Avant Garde
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Cooper Black
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Zapf Chancery
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

☆✦✚ ✹◐▢▤ ✦✚▦✹◐▤▲ (ITC Zapf Dingbats)

Futura Extra Black
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

HEADLINERS

Broadway
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Brush Script
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Coronet Bold
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Engravers' Old English
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Goudy Extra Bold
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

Poster Bodoni
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

PUBLISHERS' CHOICE

ITC Garamond Book Condensed
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

ITC Galliard
abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ

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ORDERING

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Please have your credit card and ordering information ready. Then just call toll-free (800-422-7777) to place your order. Our order lines are open from 9:00 am to 8:00 pm ET Monday through Friday and 10:00 am to 4:00 pm on Saturday.

By Mail
Fill out the attached order form. Be sure to include applicable sales tax and shipping/handling charges. Then send the order form along with your payment to:

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580 Winter Street
Waltham, MA 02154

By FAX
Fill out the attached order form, making sure the credit card billing information is legible and accurate. Then simply FAX your order to: 617-890-0822

Payment
All major credit cards are accepted. Personal and company checks are also accepted. Please keep in mind that orders paid for by company or personal check will not be shipped until the check has been approved by our credit department. For faster delivery, send a certified check, cashier's check, or money order. Terms are available for qualified customers. Please call for details.

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Need more information? Call Customer Service for technical help before or after you order.

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WARRANTIES

All GCC products are backed by GCC's exclusive warranties as well as our Product Service Center and Customer/Technical Support Groups.

- **All UltraDrive hard disks come with a full two-year warranty.**
- **All GCC printers come with a full one-year warranty.**
- **ColorFast digital film recorder comes with a full two-year warranty.**

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TECHNOLOGIES

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Company Name _____

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City _____

State _____ Zip _____

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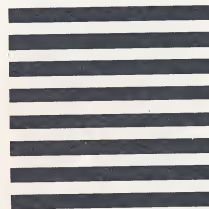FIRST-CLASS MAIL PERMIT NO. 3211 WALTHAM, MA

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Waltham, MA 02154

Rush Order

INTRODUCING TWO OF OUR BEST-KEPT SECRETS.

There are many reasons for GCC's reputation for innovative hardware.

Perhaps one of the biggest reasons, interestingly enough, is our software.

Software has been an integral part of every hard disk and printer we've ever made.

Now this software is available, not just to GCC hardware owners, but to all Macintosh owners. Introducing two of our best-kept secrets: QuickEnvelope™ and QuickSpool™ II.

Finally, A Quick And Easy Way To Print Envelopes.

If printers have an Achilles' heel, without a doubt it has to be printing envelopes.

Printing envelopes can be slow. It can be awkward.

Fortunately that's not the case with GCC printers, and now, it needn't be the case with anyone else's. Announcing the cure for printers' Achilles' heels. Announcing the release of GCC's very own, very fast, very easy, QuickEnvelope.

A versatile software product, QuickEnvelope will work with any printer designed to print envelopes. Not only that, it will work with any envelope, no matter the size or shape.

With QuickEnvelope, printing envelopes couldn't be easier. You can print both mailing and return addresses. You can customize your address using any font, style, or point size. You can print italics. You can print bolds. And because QuickEnvelope is a desk accessory, you can print envelopes from within any application.

As if things weren't easy enough, you can even store up to 1,000 addresses in a convenient built-in envelope database. And with Quick-Envelope's easy-to-use "Find" command, you can quickly locate any address in the database.

QuickEnvelope offers you other conveniences as well. For example, you can take addresses from other applications and Quick-Envelope will print them. You can copy an address from your database into your letter. QuickEnvelope can even print a one-line message at the bottom of your envelope.

In summary, there's never been an envelope-printing utility like it.

So much for Achilles' heels.

No More Waiting With QuickSpool II.

When time is of the essence, it's frustrating to have to sit and wait.

And wait.

And wait some more for your document to print. And your Macintosh to be free again.

Now with QuickSpool II, GCC's serial print spooler, you can print documents on your GCC WriteMove, WriteImpact, or Apple Image-Writer, and continue to work on your Macintosh at the same time. Because your documents, graphics, or spreadsheets are printed in the background, your Macintosh is free to do other tasks. Which means with QuickSpool II you can decrease your level of frustration, and increase your level of productivity.

And QuickSpool II is a real time saver, as well. Even when learning how to use it, QuickSpool II is easy to use. It can be accessed from the Control Panel, so Quick-Spool II can be managed from within any application. And with its flexible print options, you can selectively pause and cancel individual documents in the print queue.

But it wouldn't be a GCC product without one thing. The extensive testing that's the trademark of each of our products. QuickSpool II has been tested over and over with every major Macintosh software product available, so incompatability is never a problem.

It is, quite simply, the premier print spooling product in the industry today.

Haven't you been waiting long enough?

QuickEnvelope	**$49**
QuickSpool II	**$59**

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Questions? Call our toll-free technical support hotline.

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Now when you want to add color, style, and pizzazz to your presentation, you can design and produce your own 35mm slides, prints, and color overhead transparencies in-house. Fast!

No more service bureau. No more waiting. No more paying a small fortune.

All you need are two things. Your color Macintosh. And ColorFast,™ the new color digital film recorder from GCC Technologies.

Fast. Convenient. And Inexpensive.

Making full-color slides, overheads and prints with ColorFast couldn't be easier. Simply design the presentation on your Macintosh, select the ColorFast driver in the Chooser, and you're ready. Now just select "print" from within your favorite application, and the results will be astonishing. The presentation on your Macintosh screen will be transformed into 32-bit full color slides or overheads. If you already know how to use a laser printer, then you know how to print to ColorFast. It's that easy!

Need your slides that day? No problem. Need quick changes? Still no problem. With ColorFast you also get a manually operated processor for 35mm instant film, and an illuminated slide mounter for precise in-house slide mounting. You even get a free sample pack of seven different Polaroid® 35mm films. Nothing could be more convenient.

Or as inexpensive. By producing your slides in-house with ColorFast, you'll experience as much as a 94% cost savings over service bureaus. 94%! And when you consider Color-Fast's low purchase price, your savings over time will be tremendous.

Professional Quality Presentations.

Speaking of tremendous, wait until you see your slides. Using a new engine developed jointly by GCC and Polaroid, the undisputed leader in digital film recording technology,

ColorFast gives you true professional quality — at a very sharp 4096 line (4K) resolution, or at a faster, high-quality 2048 line (2K) resolution. Or if you need to proof your design quickly, we've even added a 1K draft mode.

We understand the pressure you face preparing important presentations at the last minute. ColorFast eliminates your timing problems by shooting typical business slides in two minutes — and that's for 2K resolution!

It gets even better. With a software option called "Enhanced Color Resolution," an anti-aliasing technique, you can enjoy the benefits of both professional-quality resolution and speed. You can shoot your slides at a fast 2K resolution, while achieving the professional look of 4K. Combine that with the power of 32-bit color QuickDraw and your presentation will look magnificent.

All this, plus features such as 33-bit (11 bits per color) pixel recording precision, accurate color filters and automatic calibration, is your guarantee that ColorFast will give you consistently high-quality output, time after time.

Versatility.

No other film recorder is as versatile as ColorFast when it comes to using 35mm slides. You have a choice of using 35mm film designed for presentations (Presentation Chrome), instant 35mm film (PolaChrome), or many other specialized Polaroid 35mm films. And of course if you already have a favorite 35mm film, ColorFast supports that also.

What if you want to make color overhead transparencies? Well, that's easy, too. With ColorFast, you simply attach the included Pack Film Camera Adapter and then you can shoot instant full-color overhead transparencies. These overheads fit in your pocket and can be displayed by using the Overhead Enlarger included with ColorFast. This folds down to a compact size of only 1½" high. The Pack Film Camera Adapter can also be used with "peel apart" instant film to proof your design.

Software Features.

ColorFast's unmatched flexibility can also be attributed to its many software features.

For example, ColorFast features a full-color "Preview" feature. A real time saver, "Preview" lets you proof your slides on your Macintosh, without exposing any film. So not only do you save time, you save money as well.

You can also save time with ColorFast's "Print Later" option. This important "batching" feature allows you to design all morning, and then image your work during lunch.

And, your presentation will always be crisp and razor-sharp. That's because it comes with Bitstream outline fonts, the same high-quality fonts found on all our award-winning QuickDraw laser printers. And, of course, Adobe Type Manager (ATM) is also included.

While we're on software, you'll be glad to know that ColorFast works with everyone else's,

too. Whether it's Microsoft® PowerPoint,™ Aldus Persuasion,™ More™ II, Cricket Presents™..., or any other leading application, ColorFast couldn't be more compatible. We've even added a PowerPoint demonstration disk to introduce you to the wide spectrum of presentation capabilities.

One-Stop Solution.

When you order ColorFast, you'll have everything you need to create the very best in business graphics, right out of the box.

With the film recorder, you'll receive a 35mm camera adapter, software including fonts, and cables. And as a bonus, valued at hundreds of dollars, we'll send you the following: a Pack Film Camera Adapter, overhead enlarger, instant 35mm slide film processor, illuminated slide mounter with 100 slide mounts, a sample pack of seven Polaroid films and six additional rolls of Presentation Chrome film. There's even an

optional software package, so you can connect to IBM and IBM compatibles.

All in all, ColorFast is the perfect solution for producing exciting, colorful presentation graphics and overheads. Whatever your requirements, ColorFast gives you the ability to create the exact presentation you need. When you want.

Quickly. Easily. Inexpensively. And with a lot of pizzazz.

ColorFast
Suggested Retail Price $8,499
Your GCC Direct Price $5,999
For accessories, see page 26.

Creating dazzling presentations with ColorFast is as easy as designing your slides on a color Macintosh, and then selecting "print" to image them on ColorFast. And for a complete range of business presentations, ColorFast provides the capability to produce overhead transparencies as well.

THE ULTRADRIVE SERIES.
THE *STANDARD* IN RELIABILITY.

In a computer system, there's one thing that's more valuable than anything else. And that one thing is your data.

Which makes you think, if you rely so much on your data, shouldn't you have a hard disk that you can rely on, too?

Presenting the UltraDrive™ Series of hard disks. Never has there been a more reliable hard disk for the Macintosh.

Unmatched Reliability.

It's no accident that we make the most reliable hard disks in the Macintosh industry.

Every UltraDrive we make undergoes extensive qualification and testing. Our drives are subjected to endurance tests, voltage tests, temperature tests, and humidity tests. They're subjected to shock tests, vibration tests, and drop tests. And just for extra measure, there's also a long and arduous series of compatibility tests.

But perhaps the most telling aspect of UltraDrive's reliability story is the story of the company that makes it. That's us, GCC Technologies, and we have more hard disk experience in the Macintosh market than anyone else. That's because we've been making hard disks for the Macintosh longer than anyone else. Yes, even longer than Apple.

Ready To Go.
With Ample Storage.

Inside UltraDrive's box you'll find all the cables and software you need to begin using it right away. There's even a universal power supply, which means UltraDrive comes ready to work whether you're in Toledo, Tokyo, or Timbuktu.

There are two other things you'll discover with UltraDrive. First, you'll notice its "zero-footprint" and how it fits directly underneath the Macintosh Plus, Macintosh SE, Macintosh SE/30, or under a Macintosh monitor. And second, you'll notice that UltraDrive offers all kinds of storage possibilities — from 20 to 80 megabytes. (There's also a high-capacity, 200-megabyte version; see pages 24 & 25.)

Plenty Of Software.

Interestingly, it's not just reliability that separates UltraDrive from other hard disks. It's an array of value-added software.

For starters, there's UltraWare,™ GCC's own collection of hard disk software. UltraWare includes DriveManager,™ a single program that runs all of our hard disks and is used to test, initialize, and format the hard disk.

Also included in UltraWare is GCC Partitions,™ a convenient desk accessory that allows you to mount and unmount your partitions without having to quit your application and run DriveManager.

With every external drive, you get SUM™ II from Symantec,™ the disk utilities package that was the recipient of *MacUser's* Editors' Choice Award and *MacWorld's* World Class Award. SUM II performs crashed disk and deleted file recovery, disk optimization, and backups, as well as file and folder encryption.

We've even added QuickSpool II, GCC's serial print spooler, and QuickEnvelope, a desk accessory designed to take the hard work out of printing envelopes. (See page 17 for additional information.)

And, as if that weren't enough, the UltraDrive Series features SelectShare,™ over 3 megabytes of the very best public domain software available.

You won't find another hard disk that gives you more reliability, more storage options, or more value-added software than UltraDrive.

The UltraDrive Series — for reliability that exceeds the norm.

UltraDrive 20
   Suggested Retail Price $699
   Your GCC Direct Price   **$499**
UltraDrive 45
   Suggested Retail Price $899
   Your GCC Direct Price   **$649**
UltraDrive 80
   Suggested Retail Price $1,199
   Your GCC Direct Price   **$879**
UltraDrive Carrying Case $30
Call for pricing on internal drives.

With its "zero footprint," UltraDrive fits conveniently underneath the Macintosh, allowing for more workspace on your desk.

Every UltraDrive hard disk comes with a wide array of software that no other hard disk offers. The collection — ordinarily retailing for hundreds of dollars — includes DriveManager, GCC Partitions, QuickSpool II, QuickEnvelope, and Select-Share. On every external drive, Sum II is also included.

800-422-7777
All UltraDrives come with a two-year warranty.
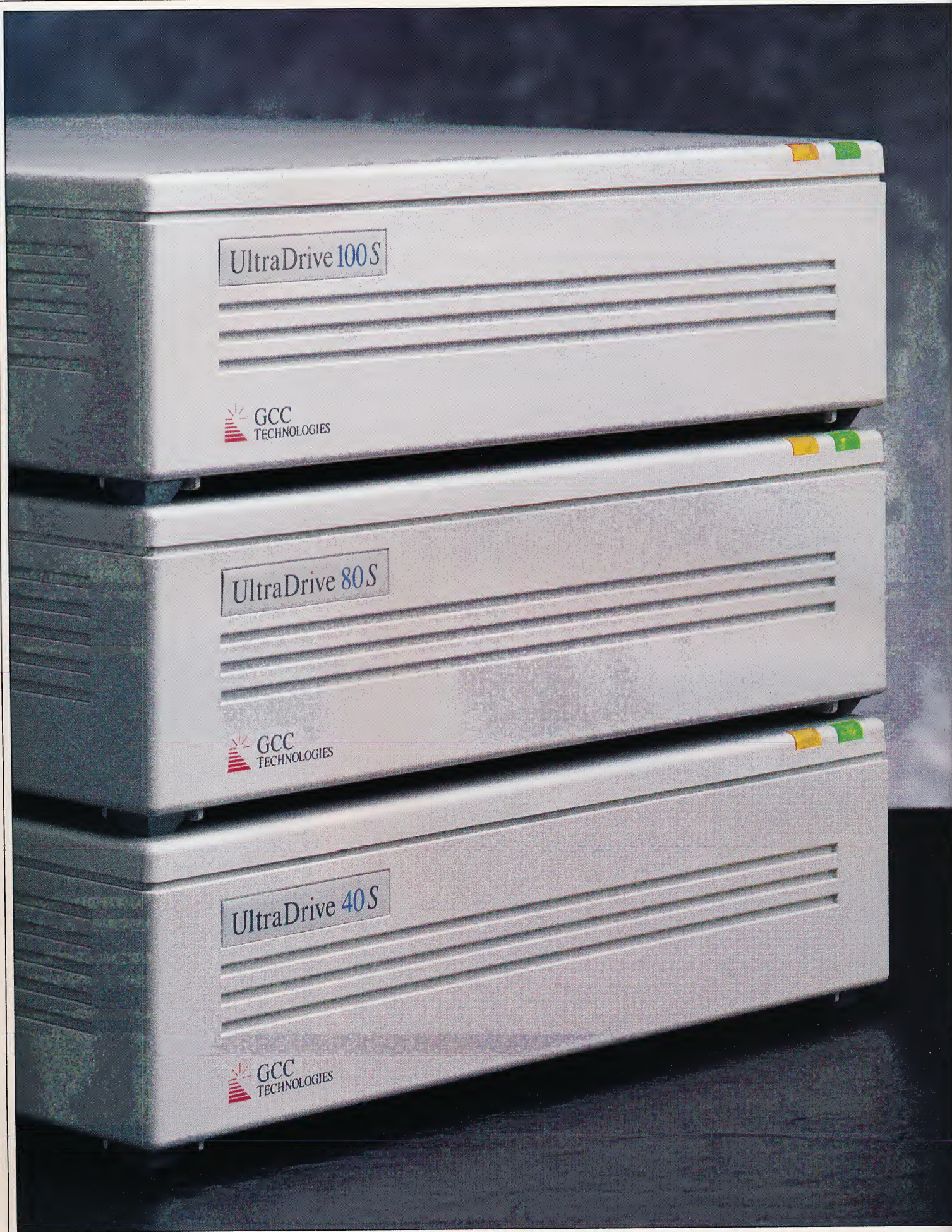
ULTRADRIVE *S.* WE'RE BREAKING THE SPEED LIMIT.

Work with an UltraDrive *S*, and you'll find there's only one thing the "*S*" in its name could possibly stand for.

Speed.

Speed, as in high performance. Speed, as in very fast. Speed, as in the fastest SCSI hard disk you can buy for the Macintosh.

On every external drive, SUM™ II from Symantec,™ the disk utilities package that was the recipient of *MacUser's* Editors' Choice Award and *MacWorld's* World Class Award, is included. SUM II performs crashed disk and deleted file recovery, disk optimization, and backups, as well as file and folder encryption.

With UltraDrive's SCSI selector switch, changing your SCSI ID is as easy as pushing a button. Plus, with UltraDrive's built-in security loop, you can protect your hard drive against theft.

VROOOOMMMM.

No matter which UltraDrive you choose — whether it's 40, 80, or 100 megabytes — you're going to get your work done faster than ever. That's because UltraDrive *S* has incredibly fast average access times. (For the high-capacity 175 and 430 megabyte versions, see pages 24 and 25.)

What is it that makes UltraDrive *S* so fast? For one thing, UltraDrive *S* has on-board disk caching. This feature decreases average access time by 35% over conventional disks.

There's also the interleave value of Ultra-Drive *S*: one-to-one on all Macintosh CPUs. This feature significantly increases your drive's data transfer rate, which means your hard disk will always operate at its maximum speed.

Like we said, vroooommmm.

Award-Winning Software.

But with UltraDrive *S*, you not only get more speed, you also get more software. Included is UltraWare, consisting of Drive-Manager and GCC Partitions. You also get QuickSpool II and QuickEnvelope. And, you get SelectShare.

Reliability.

You may be asking yourself, so with all this speed, what's the story on reliability?

When you buy UltraDrive *S*, remember, you're still buying an UltraDrive made by GCC Technologies. Which means you're getting the same exhaustive testing, a two-year warranty, and extensive customer support. So, you're still buying the most reliable hard disk on the market.

The fastest disk around, plus total reliability, value-added software, and the GCC name.

No wonder the competition has a hard time keeping up.

UltraDrive 40*S*
Suggested Retail Price $999
Your GCC Direct Price **$679**
UltraDrive 80*S*
Suggested Retail Price $1,399
Your GCC Direct Price **$969**
UltraDrive 100*S*
Suggested Retail Price $1,499
Your GCC Direct Price **$1,069**
UltraDrive Carrying Case $30
Call for pricing on internal drives.

## A FAST INTRODUCTION TO INTERLEAVE VALUES

All **UltraDrive *S*** hard disks utilize the advanced technology of a 1:1 interleave. This feature significantly increases your drive's data transfer rate, resulting in improved performance and productivity.

A hard disk consists of one or more rotating platters that, once formatted, have concentric data tracks. The data tracks are then further divided into sectors, or 512-byte data blocks. The interleave value of a hard disk determines the logical arrangement of data within the data tracks.

A drive formatted at a 1:1 interleave means that each sequentially read data block is physically adjacent to the next. This allows the drive to read an entire track of data within one revolution.

On a drive formatted with a 2:1 interleave, the sequentially read data blocks are physically placed in an alternating pattern, such that there is one block in between each sequentially read data block. So, with a 2:1 interleave value, the drive must complete two full revolutions before it reads an entire data track. And a drive formatted at a 3:1 interleave would require three revolutions for a single read sequence to be completed. If you consider that most Winchester drives rotate at 3600 RPM, each additional rotation needed to read a full track results in a delay of 16.6 milliseconds.

Because all **UltraDrive *S*** hard disks feature interleave values of 1:1 in conjunction with on-board disk caching, the drive can read an entire data track in one revolution, while simultaneously transferring this data to the Macintosh. This results in high-speed data transfer rates and average access times as low as 12 milliseconds on any Macintosh, ranging from a Macintosh Plus to the Macintosh IIfx.
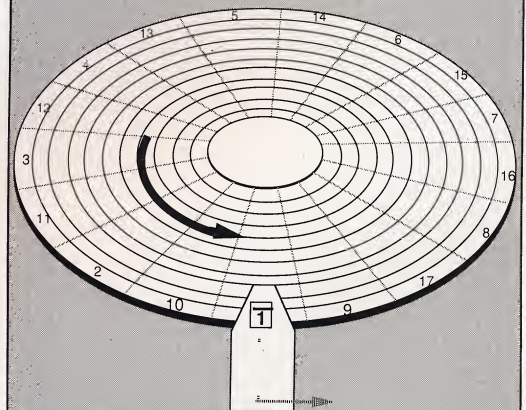
HIGH-CAPACITY ULTRADRIVES. FOR THOSE WHO HAVE A LOT RIDING ON THEIR HARD DISK.

For those Macintosh users whose storage needs far exceed others, may we present a series of hard disks that perform like no other.

Introducing our ultra-reliable, high-capacity UltraDrives—the UltraDrive 200 and the Ultra-Drive 175S and 430S.

Total Reliability.

If you take away only one thing from this catalog, it should be this: At GCC Technologies, we make the most reliable hard disk drives in the Macintosh market.

Which is something to think about if you work with large files such as color, scanned images, multi-media, CAD/CAM, or large spread-sheets. Or, if you share large amounts of information over a network through a file server.

To someone who works with large amounts of data, reliability is everything. We know, because reliability is everything to us, too. We've built our reputation on it.

Freedom Of Choice.

With our high-capacity UltraDrives reliability is always standard, but you do have some options when it comes to choosing the hard disk that's right for you.

For example, the UltraDrive 200 can be used as an external drive underneath your Macintosh Plus, SE, SE/30, or Macintosh monitor. It's also the perfect storage complement to your high-power Macintosh. And of course, the UltraDrive 200*i* is easy to install as an internal drive inside your Macintosh CPU.
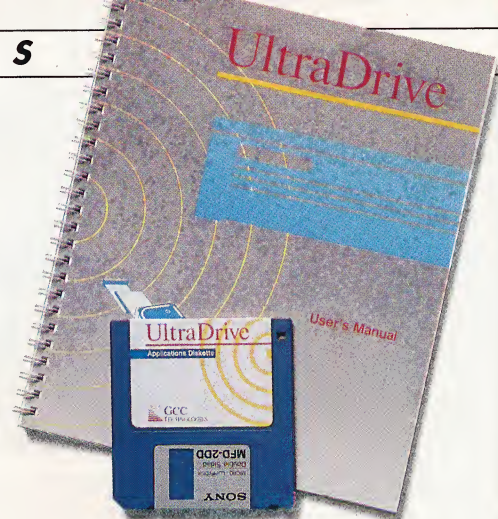
The UltraDrive 175S and 430S are specially designed for the Macintosh user requiring the ultimate in performance from a hard disk. Both are 5¼" half-height drives, which are also available as internal models for the Macintosh II, IIx, and IIfx. In fact, the UltraDrive 430S*i* is the highest-capacity internal half-height hard disk for these Macintosh models.

Maximum Performance

When we design our hard disks to give you the best performance available, we go to extremes.

For example, the UltraDrive 430S features a 16 millisecond average access time, a 1:1 interleave value, and a 48K byte disk cache for optimum performance. Now that should leave
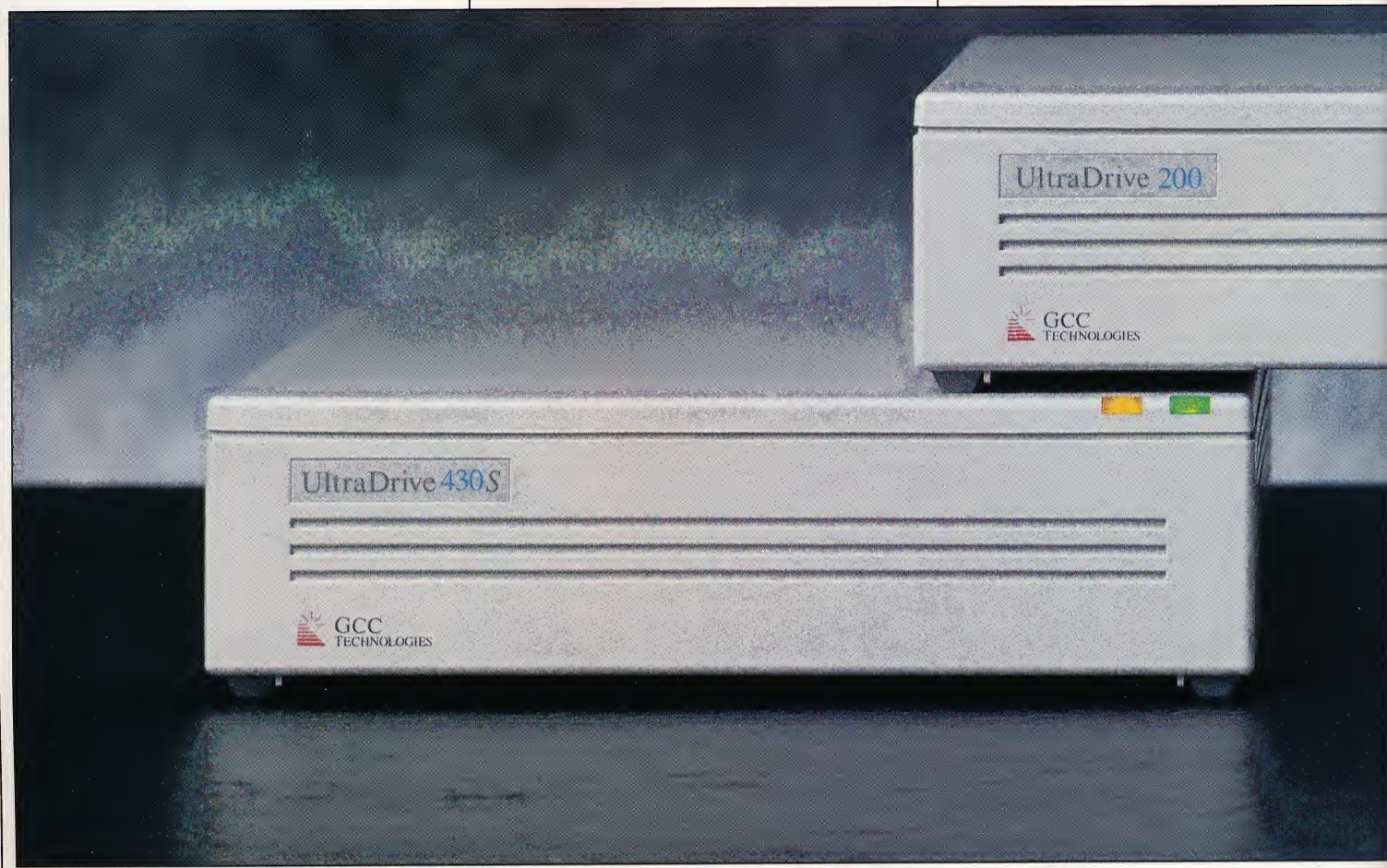
the competition standing still.

And by using a formatting technique known as Zone Bit Recording on the UltraDrive 175S and 430S, we've increased the capacity of the drives without increasing the number of platters or heads.

The end result? High capacity drives with even higher data transfer rates.

Value-Added Software.

And, as is true with each and every Ultra-Drive, our high-capacity versions come with an abundance of value-added software.

It begins with UltraWare, GCC's own collection of hard disk software. UltraWare includes DriveManager, a program that allows you test, initialize, and format your hard disk, as well as divide it into as many as 31 individual partitions. By partitioning, you can better organize your information, so accessing your data is more efficient. You can even set up separate partitions to work with different operating systems, such as Macintosh OS, ProDOS, and A/UX. And, if need be, you can secure individual partitions to safeguard your work.

Also included in UltraWare is GCC Partitions, a desk accessory that allows you to mount, unmount, and change options on the partitions you've created, without having to quit your application and launch DriveManager.

Of course, there's also QuickSpool II, GCC's own print spooler, and QuickEnvelope, a desk accessory designed to make printing envelopes a snap. Every external hard drive comes with SUM II, the industry's premier disk utilities package, as well.

The high-capacity UltraDrives from GCC Technologies. If you depend a lot on storage, depend on UltraDrive.

UltraDrive 200
Suggested Retail Price $2,399
Your GCC Direct Price   **$1,699**
UltraDrive 175S
Suggested Retail Price $2,299
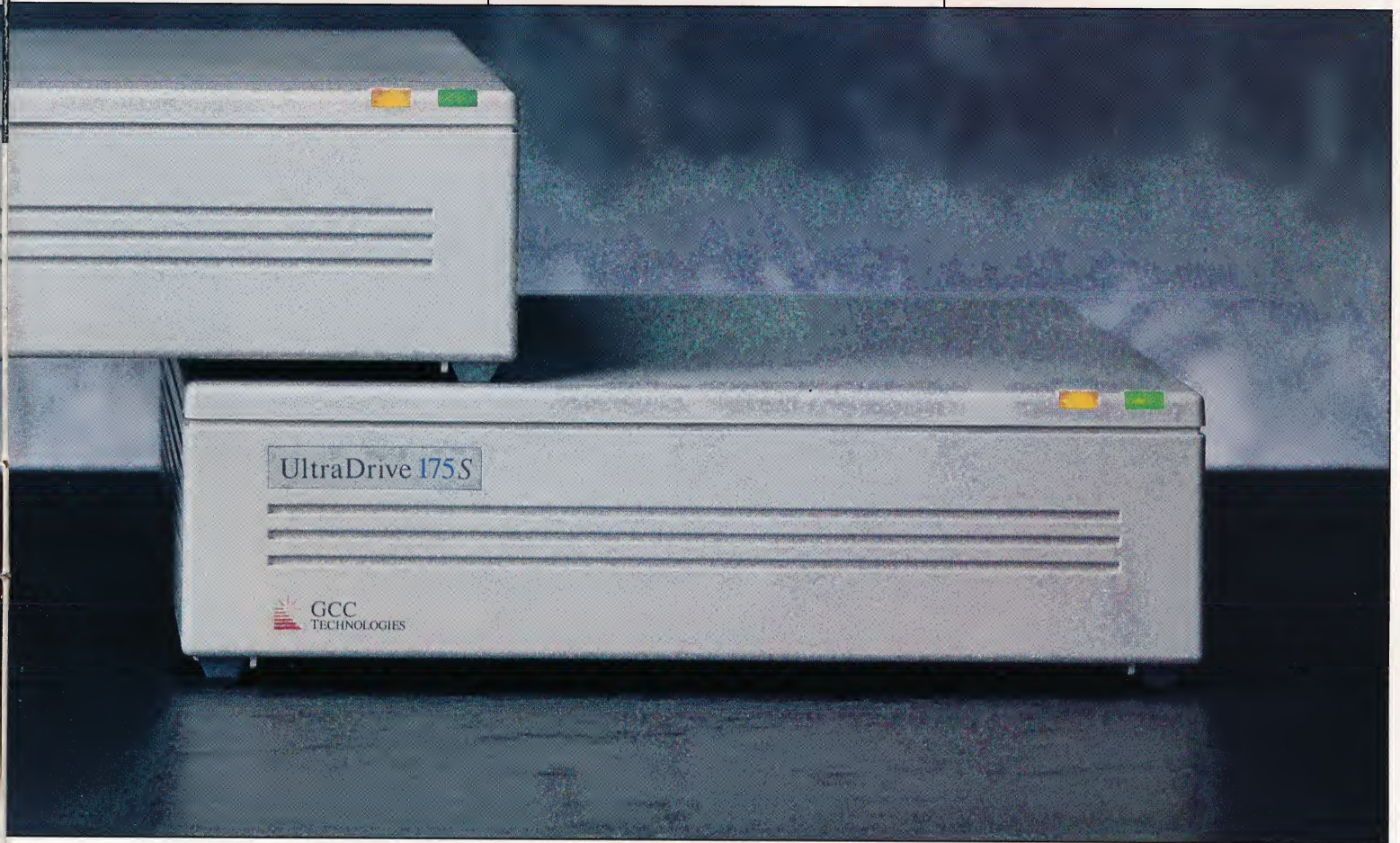**Your GCC Direct Price**   **$1,599**
UltraDrive 430S
Suggested Retail Price $3,999
Your GCC Direct Price   **$2,699**
UltraDrive Carrying Case $30

Call for pricing on internal drives.

PLP II/IIS and BLP II/IIS

Toner	$33
EP Magazine	$289
Letter Size Paper Tray	$89
Legal Size Paper Tray	$89
A4 Size Paper Tray	$89
B5 Size Paper Tray	$89
Envelope Size Paper Tray	$89
Laser Bond Paper (qty. 1,000)	$16
Dust Cover	$25
PLP II RAM Upgrade	$139
BLP II/IIS RAM Upgrade	$299
BLP II/IIS PostScript Upgrade	$999

User-installable PostScript upgrade for PLPII/IIS owners, installation by authorized GCC dealer is recommended.

BLP II/IIS PC Accessories Kit	$149

Serial and parallel interfaces and printer utility software for IBM PC and compatible computers

HP Emulation Kit	$149

HP LaserJet II and Diablo 630 emulations for BLP II/IIS owners.

Original PLP/BLP

Toner (qty. 2)	$44
Cleaning Magazine	$65
OPC Magazine	$149
BLP PostScript Upgrade	$1,399

PostScript Upgrade for original PLP owners.

WriteImpact

Ribbon (qty. 2)	$26
Automatic Cut-sheet Feeder	$169
High-Quality Tractor-feed Paper (qty. 500)	$25

WriteMove

Cartridges (qty. 3)	$42
Inkjet Paper (qty. 500)	$25
Carrying Case	$30
Printer Stand	$25
Accessory Kit	$249

Various accessories for the WriteMove, including: printer stand, carrying case, additional fonts, and inkjet paper.

Hard Disks

UltraDrive Carrying Case	$30
UltraDrive 50R Cartridge (50MB)	$129

Cables

Mac-SCSI Cable (18" long)	$29
SCSI-SCSI Cable (36" long)	$29
SCSI Terminator	$29
SCSI Extender Cable (60" long)	$29
Dual-port Adapter Cable	$59

ColorFast

Presentation Chrome 35mm Film (6 rolls of 24 exp.)	$49

High contrast vivid ISO 100 slide film specifically designed for business presentations (requires standard E-6 film processing)

PolaChrome Film (3 rolls of 12 exp.)	$59

Instant developing 35mm color slide film for general purpose presentations

Colorgraph 691 Overhead Film (3 packs of 8 exp.)	$59

Instant developing color "pocket" overhead transparency film complete with mounts

PolaColor 669 Pack Print Film (6 packs of 8 exp.)	$89

Instant developing color print film for proofing and handouts

PolaBlue 35mm Film (3 rolls of 12 exp.)	$59

White on blue instant 35mm film specifically designed for text and line art

PolaPan 35mm Film (3 rolls of 12 exp.)	$49

Instant developing 35mm continuous tone black and white film

PolaGraph 35mm Film (3 rolls of 12 exp.)	$49

Instant developing 35mm high contrast black and white film

Instant AutoFilm Type 339 (6 packs of 10 exp.)	$99

High speed instant AutoFilm

Automatic Power Film Processor	$429

Electrically-driven instant 35mm film processor for use with instant 35mm films. ColorFast ships with a manual version.

AutoFilm Camera Adapter	$499

Accepts Type 339 self-developing AutoFilm.

ColorFast MS-DOS Kit	$599

Software drivers and cables for connecting ColorFast to IBM PC and compatible computers

UltraDrive
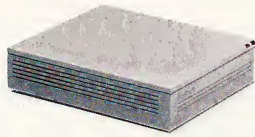
Mechanism:	UD 20	UD 45/45*i*	UD 80/80*i*	UD 200/200*i*
	Seagate ST 125N 3.5″	Seagate ST 157N 3.5″	Seagate ST 1096N 3.5″	Hitachi DK 312C 3.5″
Access Time:				
track to track (ms)	8	8	8	7
average (ms)	38	28	24	20
maximum (ms)	90	70	44	40
Functional:				
tracks	1628	3678	6349	10760
cylinders	405	613	907	1076
sectors/track	26	26	26	38
read/write heads	4	6	7	10
platters	2	3	4	5
recording method	RLL (2,7)	RLL (2,7)	RLL (2,7)	RLL (2,7)
Weight: lbs. (kgs.) (external)	6.3 (2.9)	6.3 (2.9)	6.3 (2.9)	6.8 (3.1)
Cache:	none	none	none	32K bytes
SCSI ID Selection:				
external	switch	switch	switch	switch
internal	n/a	software	software	jumpers
MTBF:	70,000 hrs.	70,000 hrs.	50,000 hrs.	100,000 hrs.
Error Correction Code Length:	32 bits	32 bits	32 bits	32 bits
Best Interleave Value:				
Mac Plus	2:1	2:1	1:1	1:1
Mac SE	2:1	2:1	1:1	1:1
SE/30, II, IIx, IIcx, IIci, IIfx	1:1	1:1	1:1	1:1

UltraDrive *S*

Mechanism:	UD 40*S*/40*Si*	UD 80*S*/80*Si*	UD 100*S*/100*Si*	UD 175*S*/175*Si*	UD 430*Si*/430*Si*
	Quantum Pro 40 3.5″	Quantum Pro 80 3.5″	Quantum Pro 100 3.5″	Seagate Wren 5 HH 5.25″ HH	Seagate Wren 6 HH 5.25″ HH
Access Time:					
track to track (ms)	6	6	6	4	3
average (ms)	19	19	19	18	16
maximum (ms)	35	35	40	40	33
Functional:					
tracks	2502	5004	6114	7720	12292
cylinders	834	834	1019	1544	1756
sectors/track	28 or 35	28 or 35	28 or 35	32–54	54–80
read/write heads	3	6	6	5	7
platters	2	3	3	3	4
recording method	RLL (2,7)	RLL (2,7)	RLL (2,7)	RLL (2,7)	RLL (1,7)
Weight: lbs. (kgs.) (external)	6.6 (3.0)	6.6 (3.0)	6.6 (3.0)	8.9 (4.0)	8.9 (4.0)
Cache:	64K bytes	64K bytes	64K bytes	32K bytes	48K bytes
SCSI ID Selection:					
external	switch	switch	switch	switch	switch
internal	software	software	software	jumpers	jumpers
MTBF:	50,000 hrs.	50,000 hrs.	50,000 hrs.	100,000 hrs.	100,000 hrs.
Error Correction Code Length:	48 bits	48 bits	48 bits	48 bits	48 bits
Best Interleave Value:					
Mac Plus	1:1	1:1	1:1	1:1*	1:1*
Mac SE	1:1	1:1	1:1	1:1*	1:1*
SE/30, II, IIx, IIcx, IIci, IIfx	1:1	1:1	1:1	1:1*	1:1*

*430*Si* and 175*Si* internal drives are available only for the Mac II, IIx, and IIfx.

UltraDrive Specifications

Dimensions (external):
Height: 2.75 in (7.0 cm)
Width: 9.50 in (24.1 cm)
Depth: 10.75 in (27.3 cm)

Head Parking: automatic on power down

Power Requirements:
Universal power supply: 90 to 240 VAC, 50 to 60 Hz, .5 A

Temperature:
operating: 50° F to 95° F (10° C to 35° C)
non-operating: −40° F to +140° F (−40° C to +60° C)

Relative Humidity: 8 to 80% (non condensing)

Altitude:
operating: 0 to 10,000 ft (0 to 3,048 m)
non-operating: 0 to 30,000 ft (0 to 9,144 m)

UltraDrive Removable
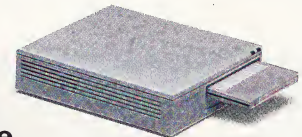
Mechanism:	UD 50*R*
	Ricoh RH5500 5.25″ HH
Access Time:	
track to track (ms)	9
average (ms)	25
maximum (ms)	45
Functional:	
tracks	2570
cylinders	1285
sectors/track	37
read/write heads	2
platters	1
recording method	RLL (2,7)
Weight: lbs. (kgs.) (external)	7.6 (3.5)
Buffer:	8K bytes
SCSI ID Selection:	switch
MTBF:	20,000 hrs.
Error Correction Code Length:	56 bits
Best Interleave Value:	
Mac Plus	1:1
Mac SE	1:1
SE/30, II, IIx, IIcx, IIci, IIfx	1:1

ColorFast

Process:	Color digital film recording technology
Addressable Image Resolution:	4000 line (4096×2732 pixels) Professional-quality (4K) 2000 line (2048×1366 pixels) High-quality (2K) 1200 line Draft (1K)
Addressable Color Resolution:	8 bits or 256 levels per primary color 16.7 million addressable colors total
Color Recording Precision:	33 bits (11 bits per primary color)
Exposure Speed:	4 minutes in 4K mode; 2 minutes in 2K mode
Interfaces:	Dual-port SCSI; Centronics parallel
Imaging Software:	32-bit QuickDraw and its extensions (picture comments), constrained outline fonts, and Enhanced Color Resolution
Film Supported:	Polaroid Presentation Chrome, High Contrast PolaChrome, PolaChrome, PolaBlue, Conventional ISO 100 and 200, 669, 691, 664, 339, 331, etc.
Fonts Included:	Times, Helvetica, Swiss Narrow, Courier, Symbol, and Bitstream Zapf Calligraphic (a version of Palatino)
Camera Adapters:	35mm and Pack Film adapters: included AutoFilm adapter: optional
Dimensions:	7″×8″×16″ (17.8×20.3×40.6 cm)
Weight:	15 lbs. (6.8 kgs.)
Power:	100–240 VAC (universal power supply), 47–66 Hz., 50 watts average
System Requirements:	Macintosh II or above, SE/30, 2MB of RAM, system 6.0.3 or above. 32-color QuickDraw (included)

Warranty Information: The Business LaserPrinter II, Business LaserPrinter IIS, Personal LaserPrinter II, Personal Laser Printer IIS, WriteImpact, and WriteMove come with a one-year warranty. ColorFast, UltraDrive, UltraDrive S, and UltraDrive 50*R* come with a two-year warranty.

FINALLY, A REMOVABLE HARD DISK RELIABLE ENOUGH TO BE CALLED AN ULTRADRIVE.

GCC certainly isn't the first company to introduce a removable hard disk. And with good reason.

Throughout all of our research we were unable to find a removable hard disk that met our uncompromising standards of reliability. After two years of exhaustive testing there's finally a removable technology worthy enough to bear the GCC name.

Presenting the UltraDrive 50R, the first removable hard disk with all the reliability and performance of an UltraDrive.

Breakthrough Technology.

There's a reason we can make an air-tight argument for UltraDrive 50R being as reliable as a hard drive. That's because UltraDrive 50R virtually is air-tight.

UltraDrive 50R is based on the latest breakthrough technology, developed jointly by GCC and Ricoh,® incorporating a contamination-free cartridge.

The UltraDrive 50R cartridge is sealed in a "clean-room" environment, to prevent interference from dust and other impurities. These impurities typically cause file corruption, head crashes, and complete loss of valuable data.

There's also a unique locking head access door on UltraDrive 50R's cartridges. This door prevents accidental user-contamination by remaining locked until the cartridge is inserted into the drive.

And, there's an automatic head retraction function, so the drive's read/write heads are exposed only when the cartridge is placed in the drive.

Thus with UltraDrive 50R, there's no contamination. And no competition.

More Storage Options.

UltraDrive 50R combines reliability with removability, providing storage options that were never available before.

Take for example, people who work with multiple files or large files, such as color or scanned images. By using an UltraDrive 50R the savings can be tremendous. That's because, instead of paying for a higher-priced, large-capacity hard drive, you can now purchase an UltraDrive 50R and simply buy additional cartridges as your storage needs expand.

And for added convenience, separate cartridges can be assigned to different projects to maximize organization.

Security And Portability.

While UltraDrive 50R has all the reliability you'll find in a hard disk, it has other advantages you won't find.

For example, with UltraDrive 50R, you have a great deal more security. Once you've finished working for the day, you can take your files and backups and simply store them away in a vault, locked desk, or filing cabinet. That's a nice option, especially if you work for a government agency, defense contractor, or financial institution.

You also have the advantage of being able to easily transport your files. With UltraDrive 50R you can toss your cartridges in a briefcase, and you're on your way.

Try doing the same thing with a hard disk.

Optimum Performance.

And when you're looking for a hard disk with performance that just won't quit, the Ultra-Drive 50R can meet your requirements.

With a rapid 25-millisecond average access time, and a 9-millisecond track-to-track time, the UltraDrive 50R can handle your storage needs whether you work with databases, spreadsheets, CAD/CAM, or electronic publishing.

Value-Added Software.

Aside from security, performance, and portability, there's one more thing you get with UltraDrive 50R that truly makes it an UltraDrive. And that's an abundance of software.

In fact, with UltraDrive 50R, you get the same software that comes with our UltraDrive S Series of hard disks.

For starters, you get DriveManager, a program that allows you to easily test, initialize, and format your cartridge. There's also GCC's QuickSpool II, a serial print spooler that can be used with WriteMove, WriteImpact, or the Apple ImageWriter. And QuickEnvelope, an envelope printing desk accessory.

But that's not all. UltraDrive 50R also includes SUM II from Symantec Corporation, the award-winning disk utilities package that performs crashed disk recovery, deleted file recovery, disk optimization, and file and folder encryption. SUM II also provides backup capabilities, which makes UltraDrive 50R the complete high-performance storage solution for both primary storage and backup.

Easy To Use.

But even with all of this sophisticated technology and software, UltraDrive 50R couldn't be easier to use. In fact, using a removable
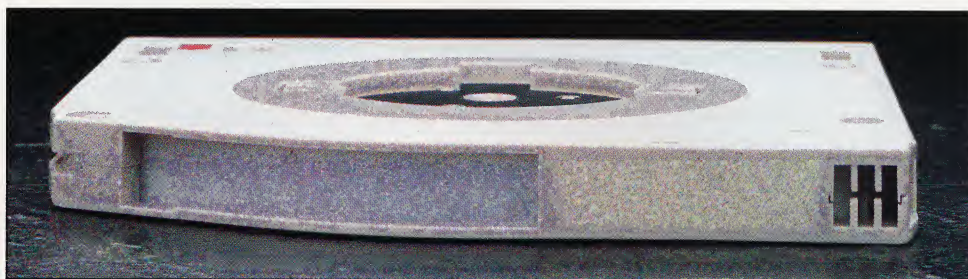
UltraDrive 50R's cartridges employ sophisticated seals for a contamination-free design.

cartridge with UltraDrive 50R is no different than using a floppy disk with your Macintosh. Just insert the cartridge into the drive, and it runs automatically.

Software. Reliability. Security. And portability. Now, that should remove any doubts you might have had about removable hard disks.

UltraDrive 50R
  Suggested Retail Price $1,799
  Your GCC Direct Price   **$1,299**
UltraDrive 50R Cartridge (50MB)   **$129**

800-422-7777
A decade of commitment.

Tech Computer, one of our key dealers in Cambridge, Massachusetts. Our authorized dealers are an integral part of the GCC Technologies family. They are GCC product experts and provide the peace of mind and convenience of local service and support.

Visit our dealers:

ALABAMA

Mac Solutions
Huntsville (205) 883-4125

ALASKA

The Computer Store
Anchorage (907) 279-1515

Juneau Electronics
Juneau (907) 789-1400

ARIZONA

Computer Mat
Lake Havasu (602) 855-3357

Mesa Computer Mart
Mesa (602) 833-1155

ARKANSAS

Micro Computer Center
Little Rock (501) 565-3481

CALIFORNIA

AVC Computers
Rancho Cordova (916) 638-2242

AVC Computers
Rocklin (916) 624-0601

Candid Computers
Simi Valley (805) 522-3823

Capital Business Machines
Eureka (707) 443-9301

Computer Age
San Diego (619) 565-4042

Computer Center of Chico
Chico (916) 891-1630

Computer Center of Chico
Redding (916) 222-4622

Computer Centrum
Oakland (415) 465-4800

Computer Outlet
Chula Vista (619) 585-8100

Computer Selection
Sunnyvale (408) 746-2288

Computer Selection
San Francisco (415) 543-9888

ComputerWare
Berkeley (415) 649-2100

ComputerWare
Palo Alto (415) 323-7559

ComputerWare
San Francisco (415) 362-3010

ComputerWare
Santa Cruz (408) 458-1644

ComputerWare
Sunnyvale (408) 732-0200

Compuworld
Sacramento (916) 924-9607

Compuworld
Davis (916) 753-3800

Compuworld
Roseville (916) 781-3282

Compuworld
Vallejo (707) 648-1222

Di-No Computers
Pasadena (818) 795-6674

Hoffman Computer Systems
Anaheim (714) 750-7318

Laser Life Technologies
Dublin (415) 829-9215

Macadam
San Francisco (415) 863-6222

Mac Garden
San Rafael (415) 457-1952

Mac Shop
Sunnyvale (408) 736-6227

MicroAge Computermart
Diamond Bar (714) 861-7505

Net Profit Computers
Rancho Cordova (916) 638-0588

Peninsula Office Equipment
Salinas (408) 424-2525

SOS Computers
Calabasas (818) 884-2064

SOS Computers
Los Angeles (213) 857-0371

Wolf Computers
Los Gatos (408) 354-1210

COLORADO

Mac Consultants
Aspen (303) 925-1091

Micro Computer World
Fort Collins (303) 226-5946

Micro Computer World
Greeley (303) 330-1700

Micro Computer World
Longmont (303) 651-1177

Neighborhood Computer Store
Lakewood (303) 988-9140

Pearl Street Computers
Boulder (303) 444-1418

CONNECTICUT

Shoreline Computers
East Haven (203) 467-0191

Shoreline Computers
Old Saybrook (203) 388-9999

Unicom
Norwalk (203) 838-3617

Computers
Wilmington (302) 999-0514

DISTRICT OF COLUMBIA

Computerland Mid-Atlantic
Washington, DC (202) 223-0900

FLORIDA

Computer Center of Panama City
Panama City (904) 763-8038

Computer Devices Limited
Jupiter (407) 744-9973

Computer Systems
Ft Lauderdale (305) 722-2220

Computer Village
Coral Gables (305) 667-7400

Computer Village
Miami (305) 255-2000

Connecting Point
Cocoa (407) 633-6018

Connecting Point
Melbourne (407) 254-9399

Inacomp Computer of N Miami Beach
N. Miami Beach (305) 947-9929

Megaport Computer Center
Venice (813) 484-4787

Micro Computer Systems
Tampa (800) 622-4636

Ray's Computer Center
Clearwater (813) 535-1414

Unique Solutions
Ft. Lauderdale (305) 486-5500

GEORGIA

AIS Computers
Fayetteville (404) 461-2147

Columbus Computer Center
Columbus (404) 324-0667

Computerland
Albany (912) 435-0062

Micro Center
Marietta (404) 859-1540

Printer Showcase
Marietta (404) 955-3353

HAWAII

Mac Concepts
Kahului (808) 871-6058

IDAHO

Alpine Computing
Idaho Falls (208) 523-9904

ILLINOIS

Alliance Computers
Highland Park (708) 831-1118

Automated Offices Limited
Highland Park (708) 831-1192

MicroAge of St. Charles
St. Charles (708) 584-9505

Computers Etc
Posen (708) 388-2000

MicroAge of Dekalb
Dekalb (815) 758-8666

DCI
Evanston (708) 328-7362

Digital Resources
Chicago (312) 465-6000

Farnsworth Computer Center
Aurora (708) 851-3888

Farnsworth Computer Center
Villa Park (708) 941-3444

Gand Music & Sound
Northfield (708) 446-4263

Inacomp of Lake County
Gurnee (708) 662-2100

Nabih's
Arlington Hts. (708) 253-1972

Nabih's
Evanston (708) 869-6140

University Computers
Chicago (312) 288-3700

INDIANA

Graham Computer Bay
Indianapolis (317) 844-1255

Graham Computer Bay
Indianapolis (317) 634-8202

Micro Computer Systems
Columbus (812) 372-2600

Micro Computer Systems
Bloomington (812) 333-9797

Micro Computer Systems
Evansville (812) 473-4004

The Future Now
Indianapolis (317) 846-5996

IOWA

AC Computers
Sioux City (712) 279-8722

Beacon MicroCenter
Ames (515) 233-4807

Beacon MicroCenter
Mason City (515) 424-8205

Beacon MicroCenter
West Des Moines (515) 233-5010

KANSAS

Computers ASP
Leavenworth (913) 651-2052

Computerland
Hays (913) 625-4123

Computerland
Hutchinson (316) 662-6832

Mac Source
Lawrence (913) 749-4554

Mac Source
Manhattan (913) 537-0188

Mac Source
Overland Park (913) 383-3111

Micro Age
Emporia (316) 342-4893

The Computer Patch of Topeka
Topeka (913) 233-6688

KENTUCKY

Ashland Office Supply Center
Ashland (606) 329-1400

Computer Source
Paducah (502) 442-9726

Computer Store/Connecting Point
Louisville (502) 456-5011

Graham Computer Bay
Louisville (502) 423-7120

Lexington Computer Store
Lexington (606) 268-1431

LOUISIANA

MCS
Baton Rouge (504) 766-5892

MAINE

Coastal Computer Center
Portland (207) 774-0741

MARYLAND

Bethesda Computers
Bethesda (301) 657-1992

Computerland Mid-Atlantic
Rockville (301) 881-2810

Computerland Mid-Atlantic
Clinton (301) 856-2500

Computerland Mid-Atlantic
Laurel (301) 953-1110

Mac Corner
Gaithersburg (301) 948-1538

Sunrise Computers
Haggerstown (301) 790-3060

Towson Computers
Pasadena (301) 544-7676

Towson Computers
Towson (301) 337-2750

Westminster Computer
Westminster (301) 848-0333

MASSACHUSETTS

Computers Etc.
Peabody (508) 535-5252

Ferranti-Dege Connecting Point
Boston (617) 232-2550

Software & Systems Unlimited
Worcester (508) 752-8930

Tech Computer Center
Acton (508) 263-3600

Tech Computer Center
Cambridge (617) 497-0395

Unicom
Dedham (617) 329-7440

University Computers
Boston (617) 236-7464

MICHIGAN

Advanced Management Systems
Grand Rapids (616) 956-6686

Advanced Management Systems
Holland (616) 396-6821

Advanced Management Systems
Muskegon (616) 739-3395

Advanced Management Systems
Okemos (517) 349-9540

CRT & Associates
Dollar Bay (906) 482-1339

The dealers and distributors listed here are independent businesses. As such, they set their own policies and procedures.

070-12638-00

Computer Connection
Plymouth (313) 455-2983

Computer Group of Southfield
Southfield (313) 352-5151

Micro Age of Troy
Troy (313) 528-3535

Midland Computer Center
Midland (517) 832-0905

MINNESOTA

Dan Patch Micro Systems
Burnsville (612) 894-1683

First Tech
Minneapolis (612) 377-9300

Hagen Office Equipment
Minneapolis (612) 866-3441

Office Product Systems
St. Paul (314) 821-8000

Team Electronics
St. Paul (612) 738-1243

United Managers
Faribault (507) 332-2241

MISSOURI

Advant Computer
St. Louis (314) 863-8181

Advant Computers
St. Louis (314) 487-2002

Computerland
Cape Girardeau (314) 335-4171

Computers ASP
Kansas City (816) 741-8013

Computer Junction
Washington (314) 239-7544

MONTANA

Computerlines
Bozeman (406) 586-7693

NEBRASKA

Database Systems
Omaha (402) 330-3600

NEVADA

Century 23 Computers & Electronics
Las Vegas (702) 870-1534

Studio G Services
Reno (702) 827-0702

Technology Center
Reno (702) 324-4400

NEW HAMPSHIRE

Bitznbytes Computer Center
Concord (603) 224-8233

Computer Mart — NH
Manchester (603) 625-1474

Computer Mart — NH
Nashua (603) 888-1190

Computer Mart — NH
Portsmouth (603) 433-8876

Diversified Computers
Keene (603) 357-4360

NEBA Computer
Plaistow (800) 322-6070

NEW JERSEY

Boise Office Equipment
North Plainfield (201) 755-5544

MDI Computer Store
East Windsor (609) 443-0900

NEW MEXICO

CLI Computers
Albuquerque (505) 883-0955

NEW YORK

Adwell Communications
Hempstead (516) 485-7100

Amherst Computer Exchange
Williamsville (716) 626-5111

Byte Shop
Merrick (516) 379-2983

Computer Edge
Mount Kisco (914) 666-6337

Computer Outlet
New City (914) 638-3800

Custom Computer Specialists
Hauppauge (516) 582-6699

Data Place
Lynbrook (516) 593-8300

J & J Computing
Suffern (800) 359-6381

Mac Emporium
New York (212) 677-1800

NORTH CAROLINA

Audio Buys
Raleigh (919) 821-1776

Inacomp Computer Center
Charlotte (704) 535-3828

Inacomp Computer Center
Fayetteville (919) 864-2572

Inacomp Computer Center
Greensboro (919) 668-9301

Inacomp Computer Center
Hickory (704) 327-2330

Inacomp Computer Center
Raleigh (919) 878-9054

NORTH DAKOTA

Team Electronics
Grand Forks (701) 746-4474

OHIO

Campus Computer
Cleveland (216) 795-0500

Cincinnati Computer Store
Cincinnati (513) 793-8200

Cincinnati Computer Store
Cincinnati (513) 671-6440

Graham Computer Bay
Cincinnati (513) 772-7753

J.R. Holcomb and Company
Cleveland (216) 341-3000

Micro Center
Columbus (614) 481-8041

Micro Center
Westerville (614) 794-4402

Micro Computer Center
Springfield (513) 322-0519

Micro Computer Center
Dayton (513) 435-9355

Micro Computer Center
Beavercreek (513) 429-9355

The Future Now
Cincinnati (513) 565-7555

The Future Now
Columbus (614) 885-3645

OKLAHOMA

Computer Warehouse
Tulsa (918) 664-7575

OREGON

Focus Electronics
Salem (503) 364-3289

Micro Works Connecting Point
Medford (503) 773-9861

The Computer Store
Corvallis (503) 754-0811

The Computer Store
Eugene (503) 343-1434

The Computer Store
Portland (503) 238-1200

PENNSYLVANIA

Application Research & Design
Easton (215) 252-4999

Computer Campus
King of Prussia (215) 265-6311

MicroMax Business Systems
New Brighton (412) 846-3000

Solution Concepts
Doylestown (215) 345-4411

Sunrise Computers
Chambersburg (717) 267-1341

PUERTO RICO

Systronics DePonce
Arecibo (809) 880-4027

Systronics DePonce
Mayaquez (809) 834-7205

Systronics DePonce
Ponce (809) 848-7205

RHODE ISLAND

Unicom
Warwick (401) 732-3833

Unicom
Providence (401) 467-5600

SOUTH CAROLINA

Creative Computer Systems
Florence (803) 665-8655

Creative Computer Systems
Myrtle Beach (803) 626-7637

Inacomp Computer Centers
Greenville (803) 233-2586

Inacomp Computer Centers
Myrtle Beach (803) 626-8800

SOUTH DAKOTA

Computer Solutions
Sioux Falls (605) 334-3000

TENNESSEE

Computer Lab
Jackson (901) 668-9282

Computer Lab
Memphis (901) 761-4743

TEXAS

Bottom Line
Austin (512) 469-5688

CTWP
Bryan (409) 779-2998

CTWP
Killeen (817) 634-3392

CTWP
San Angelo (915) 658-1507

CTWP
Temple (817) 774-9667

CTWP
Waco (817) 752-0376

Computer Depot
Austin (512) 323-5577

Hardin Computers
Arlington (817) 572-2775

Macinterfaces
Houston (713) 522-1557

Tartan Graphics
Dallas (214) 521-9824

UTAH

Alpine Computing
Logan (801) 752-6432

Alpine Computing
Murray (801) 226-1510

Alpine Computing
Ogden (801) 392-0353

Alpine Computing
Orem (801) 226-1510

Alpine Computing
Richfield (801) 896-9292

Alpine Computing
St. George (801) 628-4423

Inkley's
Salt Lake City (801) 467-5482

Mad Macs Little Helper
Provo (801) 377-6555

Telos Computer Store
Bountiful (801) 298-8000

VERMONT

Maya Computer Company
Waitsfield (800) 541-2318

VIRGINIA

Computer Solutions
Leesburg (703) 777-3770

Computerland Mid-Atlantic
Alexandria (703) 838-9700

Computerland Mid-Atlantic
Glen Allen (804) 346-8827

Computerland Mid-Atlantic
Tysons Corner (703) 442-3800

WASHINGTON

Alpha Computer Center
Richland (509) 946-4230

Alpha Computer Center
Walla Walla (509) 529-7710

Alpha Tech Computers
Bellevue (206) 747-3000

Alpha Tech Computers
Bellingham (206) 671-2332

Alpha Tech Computers
Seattle (206) 622-1100

Alpha Tech Computers
Tacoma (206) 475-5702

Cliff Miller Computer
Yakima (509) 248-1585

Computer Connection
Silverdale (206) 692-7753

Electro Mart
Spokane (509) 535-2451

Electro Mart
Spokane (509) 467-2400

Key People
Everett (206) 252-2002

Quantum Computers
Tacoma (206) 475-7000

Quantum Computers
Tacoma (206) 582-3700

Stolz Computer
Lacey (206) 459-9595

The Computer Store
Seattle (206) 522-0220

WEST VIRGINIA

West Virginia Business Products
Huntington (304) 525-4714

WISCONSIN

A.C.C. Computers
Ripon/Oshkosh (414) 748-5660

Boss Technologies
Beloit (608) 362-1340

Boss Technologies
Madison (608) 271-4636

Colortron
Racine (414) 637-5884

North Shore Computers
Milwaukee (414) 963-9700

WYOMING

Computerland
Gillette (307) 682-6609

Electronics Unlimited
Cheyenne (307) 637-6630

Selected Canadian Dealers

ALBERTA

Corporate Computers, Inc.
Edmonton (403) 450-6787

Professional Computer Center
Calgary (403) 294-1778

WestWorld Computers
Edmonton (403) 454-5190

BRITISH COLUMBIA

Advantage Computers
Burnaby (604) 299-3881

Byte Computers
Vancouver (604) 738-2181

BMH Computer Solutions
Langley (604) 534-5251

NEW BRUNSWICK

Novatech, Inc.
Fredericton (506) 453-0909

NOVA SCOTIA

Atlantis Microcomputer
Halifax (902) 422-6556

ONTARIO

AppLAND Microsystems, Inc.
Toronto (416) 533-7668

Arkon Electronics, Ltd.
Toronto (416) 593-6502

Computer Computer
Barrie (705) 737-4232

Computer Systems Center
Toronto (416) 927-1921

Corptech Systems
Toronto (416) 395-1222

Elm Street Computer Terminal
Toronto (416) 591-8684

JDH Microsystems
Willowdale (416) 756-1448

J.R. Business Equipment
Kingston (613) 546-0835

Light Computer Center
Hamilton (416) 524-1972

North Star Business Centers
Ottawa (613) 726-9481

Up & Running Systems
Ottawa (613) 748-6050

Vertimac
Mississauga (416) 507-1100

QUEBEC

Microserv J.B.F., Inc.
Dorval (514) 636-5127

Ordinateurs 2000, Inc.
Hull (819) 777-3615

Centre du Micro Ordinateur SICL
Montreal (514) 844-8464

All MicroAge stores across Canada. Most Canadian University computer stores. For additional dealers in Canada, please call 800-263-1405.

Selected International Distributors

AUSTRALIA

NEXT to MAC
Redfern, NSW, Australia
61-26-997662

AUSTRIA

Well Com
Wien, Austria
43-222-533-2400

FINLAND

Dataplus OY
Helsinki, Finland
358-0-35-88-55

HONG KONG

Atoztec Systems, Ltd.
Kowloon, Hong Kong
852-736-2322

IRELAND

Typetec Ireland
Dublin, Ireland
353-1-67-98011

JAPAN

Kanto Denshi Corporation
Chiyoda-ku, Tokyo 101, Japan
81-3-837-4671

NEW ZEALAND

Imagineering
Albany, Auckland, New Zealand
64-9-415-8300

NORWAY

Software Plus AB
Gjerdrums, Norway
472-3946-96

SPAIN

HSC Industrial, S.A.
Madrid, Spain
341-255-7900

SWEDEN

Software Plus AB
Norrkoping, Sweden
46-11-181270

ColorFast Digital Film Recorder
See Pages 18 and 19.

Flexibility

- Outline font technology
- True 4096 x 2732 "professional" mode
- "High-quality" 2048 x 1366 mode, with software "pixel averaging"
- Color "Preview" option